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2009 Joint CBRN Conference & Exhibition

"Full Spectrum CBRN Operations"

Fort Leonard Wood, MO

23 - 25 June 2009

[Agenda](#)

[Revised Agenda](#)

Wednesday, 24 June, 2009

SESSION I - BAKER THEATER- GLOBAL SECURITY AND HOMELAND DEFENSE

CHIEF OF CHEMICAL WELCOME

- [COL \(P\) Les Smith](#), Commandant, US Army CBRN School

FORT LEONARD WOOD WELCOME AND MANSCEN OVERVIEW

- [MG Gregg Martin](#), Commanding General, US Army Maneuver Support Center
 - 1. [Why I joined](#) wmv video file
 - 2. [CPT Smiley](#) wmv video file
 - 3. [JIAISMFSCOE](#) wmv video file

KEYNOTE ADDRESS

- [Mr. Tim Morgan](#), Chief of Staff, Office of the Assistant Secretary of Defense for Global Strategic Affairs

Mr. Peter Bechtel, Director, U.S. Army Nuclear and Combating WMD Agency

[MG Daniel Long](#), Commanding General, JTF Civil Support, USNORTHCOM

1. [Sudden Response](#) wmv video file

MAJ Gen Donald Fick, Director of Force Structure, Resources and Assessment (J8), National Guard Bureau

BG Jess Scarbrough, Joint Program Executive Officer for Chemical and Biological Defense

[Mr. Vince Nardy](#), Chairman, CBD Acquisition Initiatives Forum

[Mr. Ron Evans](#), Director, CBRN Information Analysis Center

Thursday, June 25, 2009

SESSION II - BAKER THEATER-CBRN DEFENSE AND WARFIGHTER READINESS

KEYNOTE ADDRESS

- [Mr. Jean Reed](#), Deputy Assistant to the Secretary of Defense for Chemical and Biological Defense/Chemical Demilitarization

[Ms. Dee Dodson Morris](#), Chief of Staff, Joint Requirements Office for Chemical, Biological, Radiological and Nuclear Defense

[Dr. Darrel Galloway](#), Director, Chemical and Biological Technologies and Joint Science & Technology Office for Chemical and Biological Defense, DTRA

[Mr. James Cooke](#), Joint Chemical and Biological Defense Test & Evaluation Executive

[Upcoming Events](#)

Tennessee Valley Federal Small Business Programs Conference



*"Collaborating for
Success"*

**June 30 – July 2, 2009
Huntsville, AL**

National Security Space Policy & Architecture Symposium (SCI Level Clearance)



July 23 - 24, 2009
Chantilly, VA

Pacific Operational Science & Technology Conference & Exhibition



*"Synchronizing Operators
and Technologists"*

August 3 - 6, 2009
Honolulu, HI

Warheads & Ballistics Symposium



**August 3 - 6, 2009
Monterey, CA**

C4ISR Breakfast



**August 4, 2009
Pentagon City, VA**

Mastering Business Development Workshop for Small Business



*“...acquire the knowledge,
thinking, skills and discipline
for proactive Business
Development...”*

**August 4 - 5, 2009
Annapolis, MD**

2009 Missile Defense Agency Small Business Innovation Research Industry Day



**August 11 - 12, 2009
Long Beach, CA**

Land & Maritime Supply Chains Business Conference & Exhibition (DSCC)



*"Connecting Suppliers to
Warfighters..."*

**August 17 - 19, 2009
Columbus, OH**

Joint ADL Co-Lab Implementation Fest 2009



**August 18 - 20, 2009
Orlando, FL**

Expeditionary Warfare Division Wargame



**August 25 - 26, 2009
MCB Quantico, VA**

Missile Defense Small Business Advocacy Conference



“Information Technology”

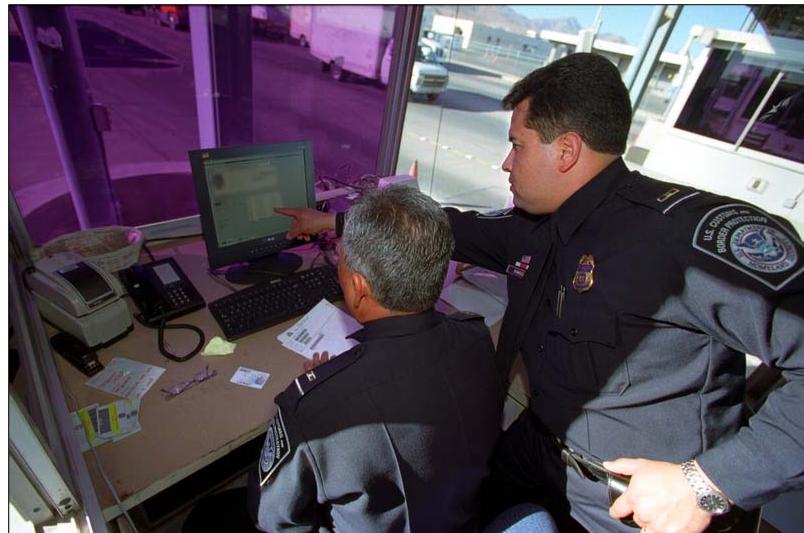
**Aug 31 – Sep 1, 2009
Colorado Springs, CO**

SO/LIC Executive Breakfast



**September 1, 2009
Washington, DC**

2009 Homeland Security Symposium and Exhibition



“Building a Resilient & Sustainable Homeland – Public and Private Sector Partners Serving America”

September 9 - 10, 2009
Arlington, VA

Mastering Business Development Workshop



*“...acquire the knowledge,
thinking, skills and discipline
for proactive Business
Development...”*

**September 15 - 16, 2009
Greenwood Village, CO**

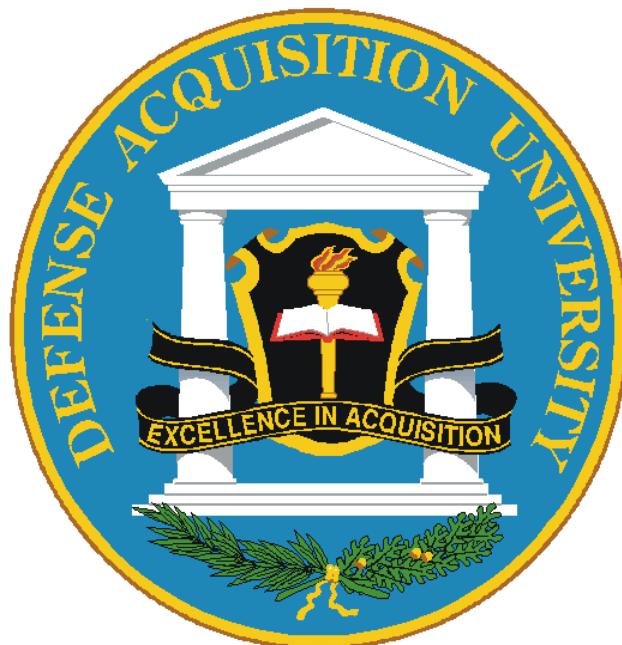
2009 Undersea Warfare Technology Fall Conference



"Undersea Warfare: Full Spectrum Capabilities to Preserve Freedom of the Seas"

September 21 - 24, 2009
Groton, CT

Defense Systems Acquisition Management Course (DSAM)



**September 21 - 25, 2009
Nashville, TN**

Stability, Security, Transition and Reconstruction Operations Conference



*“Working in the Same Space:
International Outreach and its
Implications on Diplomacy,
Development, and Defense”*

**September 28 - 29, 2009
Pentagon City, VA**

2009 Women In Defense National Fall Conference



*“Innovation, Inspiration,
Imagination: Incentives for
the Future”*

**September 29 , 2009
Alexandria, VA**

U.S. - UK - Canada Defense Industry Trilateral Symposium



*“Promoting Defense and
Security Through Trade and
Cooperation.”*

**October 2, 2009
Arlington, VA**

Combat Vehicles Conference



**October 12 - 14, 2009
Dearborn, MI**

2009 TACOM Life Cycle Management Command APBI

October 14 - 16, 2009
Dearborn, MI

Disruptive Technologies Conference



**October 14 - 15, 2009
Washington, DC**

47th Annual Targets, UAVs & Range Operations Conference & Exhibition



*“Test and Training in a Time
of Change”*

October 21 - 23, 2009
Savannah, GA

12th Annual Systems Engineering Conference



October 26 - 29, 2009
San Diego, CA

Technical Information Division Conference



NDIA Technical Information Division

*“CDM Fulfillment in the
Systems Engineering
Environment”*

**October 26, 2009
San Diego, CA**

Precision Strike Technology Symposium



**PRECISION STRIKE
A S S O C I A T I O N**

**October 27 - 29, 2009
Laurel, MD**

Mastering Business Development Workshop



*“...acquire the knowledge,
thinking, skills and discipline
for proactive Business
Development...”*

**November 3 - 4, 2009
Herndon, VA**

Aircraft Survivability Symposium (Secret US Only)



*“Next Generation
Requirements”*

November 3 - 6, 2009
Monterey, CA

USCG Innovation EXPO

November 16 - 19, 2009
Virginia Beach, VA

14th Annual Expeditionary Warfare Conference



“Expeditionary Warfare in a Complex Joint Operating Environment”

**November 16 - 19, 2009
Panama City, FL**

9th Annual CMMI Technology Conference



November 16 - 19, 2009

Denver, CO



2009 JOINT CBRN

CONFERENCE & EXHIBITION

"Full Spectrum CBRN Operations"



JUNE 23-25, 2009

WWW.NDIA.ORG/MEETINGS/9300

FORT LEONARD WOOD, MISSOURI

EVENT #9300

**2009 JOINT CBRN
AGENDA**

TUESDAY JUNE 23, 2009

3:00 PM - 6:00 PM — REGISTRATION OPENS

5:00 PM - 6:00 PM — WELCOME RECEPTION IN EXHIBIT TENT

WEDNESDAY JUNE 24, 2009

**7:30 AM - 9:00 AM — REGISTRATION AND CONTINENTAL BREAKFAST
EXHIBITS TENT**

**7:30 AM - 6:30 PM — EXHIBITS OPEN
EXHIBITS TENT**

**9:00 AM - 3:30 PM — SESSION 1:
BAKER THEATER
GLOBAL SECURITY AND HOMELAND DEFENSE**

**9:00 AM - 9:45 AM — OPENING COMMENTS
BAKER THEATER**

**NDIA WELCOME
BG DEAN ERTWINE, USA (RET)
CHAIRMAN, CBRN DIVISION, NDIA**

**CHIEF OF CHEMICAL WELCOME
COL (P) LES SMITH
COMMANDANT, US ARMY CBRN SCHOOL**

**FORT LEONARD WOOD WELCOME AND MANSCEN OVERVIEW
MG GREGG MARTIN
COMMANDING GENERAL, US ARMY MANEUVER SUPPORT CENTER**

**9:45 AM - 10:15 AM — KEYNOTE ADDRESS
MR. TIM MORGAN
CHIEF OF STAFF, OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE FOR GLOBAL STRATEGIC AFFAIRS**

10:15AM - 10:30AM — BREAK

WEDNESDAY JUNE 24, 2009 CONTINUED

10:30 AM - 11:00 AM — MR. PETER BECHTEL

DIRECTOR, U.S. ARMY NUCLEAR AND COMBATING WMD AGENCY

11:00 AM - 11:30 AM — MG DANIEL LONG

COMMANDING GENERAL, JTF CIVIL SUPPORT, USNORTHCOM

11:30 AM - 1:30 PM — LUNCH

EXHIBITS TENT

1:30 PM - 2:00 PM — MAJ GEN DONALD FICK

DIRECTOR OF FORCE STRUCTURE, RESOURCES AND ASSESSMENT (J8), NATIONAL GUARD BUREAU

2:00 PM - 2:30 PM — BG JESS SCARBROUGH

JOINT PROGRAM EXECUTIVE OFFICER FOR CHEMICAL AND BIOLOGICAL DEFENSE

2:30 PM - 2:45 PM — MR. VINCE NARDY

CHAIRMAN, CBD ACQUISITION INITIATIVES FORUM

2:45 PM - 3:00 PM — MR. RON EVANS

DIRECTOR, CBRN INFORMATION ANALYSIS CENTER

3:00 PM - 3:30 PM — COL MARK MALATESTA

JOINT PROGRAM MANAGER FOR GUARDIAN, JPEO CBD

3:30 PM — CLOSING COMMENTS, DAY 1

BG DEAN ERTWINE, USA (RET)

3:30 PM - 5:00 PM — VISIT OUTDOOR EXHIBITS AND DEMONSTRATIONS

OUTSIDE OF EXHIBIT TENT

5:00 PM - 6:30 PM — NDIA RECEPTION

EXHIBITS TENT

**2009 JOINT CBRN
AGENDA**

THURSDAY JUNE 25, 2009

7:30 AM - 9:00 AM — REGISTRATION AND CONTINENTAL BREAKFAST
EXHIBITS TENT

7:30 AM - 1:30 PM — EXHIBITS OPEN
EXHIBITS TENT

8:50 AM - 3:30 PM — SESSION 2:
BAKER THEATER
CBRN DEFENSE AND WARFIGHTER READINESS

8:50 AM - 9:15 AM — OPENING COMMENTS
BAKER THEATER

NDIA WELCOME
COL FRANK COX, USA (RET)
NDIA, CBRN DIVISION

YEAR OF THE NCO
CSM TED LOPEZ
11TH REGIMENTAL CSM, US ARMY CHEMICAL CORPS

9:15 AM - 9:45 AM — KEYNOTE ADDRESS
MR. JEAN REED
DEPUTY ASSISTANT TO THE SECRETARY OF DEFENSE FOR CHEMICAL AND BIOLOGICAL DEFENSE / CHEMICAL DEMILITARIZATION

9:45 AM - 10:15 AM — RADM ARCHER M. MACY
DIRECTOR, JOINT REQUIREMENTS OFFICE (J-8), THE JOINT STAFF

10:15 AM - 10:30 AM — BREAK

10:30 AM - 11:00 AM — DR. DARREL GALLOWAY
DIRECTOR, CHEMICAL AND BIOLOGICAL TECHNOLOGIES AND JOINT SCIENCE & TECHNOLOGY OFFICE FOR CHEMICAL AND BIOLOGICAL DEFENSE, DTRA

11:00 AM - 11:30 AM — MR. JAMES COOKE
JOINT CHEMICAL AND BIOLOGICAL DEFENSE TEST & EVALUATION EXECUTIVE

11:30 AM - 1:30 PM — LUNCH
EXHIBITS TENT

THURSDAY JUNE 25, 2009 CONTINUED

1:30 PM — EXHIBITS CLOSE

1:30 PM - 2:30 PM — PANEL: YEAR OF THE NCO INITIATIVES

- ◆ CSM TED LOPEZ, REGIMENTAL CSM, US ARMY CHEMICAL CORPS
- ◆ CSM PAT ALSTON, SENIOR ENLISTED ADVISOR, DTRA
- ◆ CSM MARVIN WOMACK , CSM, 20TH SUPCOM (CBRNE)

2:30 PM - 3:00 PM — BG JEFF SNOW

COMMANDING GENERAL, 20TH SUPCOM (CBRNE)

3:00 PM - 3:30 PM — COL (P) LES SMITH

COMMANDANT, US ARMY CBRN SCHOOL AND 25TH CHIEF OF CHEMICAL

3:30 PM — CLOSING COMMENTS

BG DEAN ERTWINE, USA (Ret)

CHAIRMAN, CBRN DIVISION, NDIA

4:00 PM CONFERENCE ADJOURNS

2009 JOINT CBRN EXHIBITS INFORMATION

EXHIBITOR LIST (AS OF 6/10/2009)

20/20 BioResponse	1126	HDT, Engineered Technologies	7	Raytheon Technical Services	1002
20th Support Command (CBRNE)	1102	ICx Technologies	807	Reactive Surfaces	1125
AdVnt Biotechnologies	1007	ICx Technologies	8	REMPLOY FRONTLINE	610
AFRL-TBMCS-UL/UC2	1213	Idaho Technology, Inc.	927	RSDecon - A Bracco Company	426
Ahura Scientific, Inc.	715	IEM	607	SafetyTech International, Inc.	708
Air Techniques International	823	INFICON	623	SAIC	808
AirBoss-Defense	528	InnovaPrep	1227	SAIC	11
Airogistic LLC	1223	Intelagard	824	Scott Health & Safety	424
AkzoNobel Aerospace Coating	1013	iRobot Corporation	701	Signature Science, LLC	712
Alaska Structures	1008	ISOVAC Products LLC	1209	Smiths Detection	411
All American Cleaning Systems	625	ITT AES	716	SolaRover	9
Alluviam LLC	612	JCBRN 2009	1108	STERIS Corporation	1016
Argon Electronics	514	JFCOM Static Display	5	SupplyCore Inc.	1104
AristaTek	726	Joint Research and Development, Inc.	527	Syracuse Research Corporation	827
Asynchrony Solutions	508	JPEO for Chem Bio Defense	202	Teledyne Brown Engineering	1028
Avon	516	JPEO for Chem Bio Defense	101	TetraCore, Inc.	624
Battelle	916	JPEO for Chem Bio Defense	102	Tex Shield	602
Biological Chemical Protection Services	1113	JPEO for Chem Bio Defense	107	The Hughes Group	111
Bruker Daltonics NBC Detection Corp.	802	JPEO for Chem Bio Defense	408	TMTI	1207
Bruker Daltonics NBC Detection Corp.	804	JPM- Decon 3 Military Static Display	1	TSI Incorporated	510
Camber Corporation	926	JPM- Decon Sanijet	2	U.S. Army ECBC	1112
CBRNe World	628	Kalman & Company, Inc.	1211	US Army Dugway Proving Ground	401
CBRNIAC	626	Kappler Inc.	1023	US Army Engineering School-DEI	1110
Center for National Response	1127	L-3 Communications, Linkabit	526	USAA	724
Clean Earth Technologies, LLC	711	Lattice Incorporated	611	Utilis USA	12
Climatronics Corporation	1118	Laurus Systems	608	W.L. Gore & Associates, Inc.	814
Concurrent Technologies Corporation	523	Lockheed Martin	908	Warwick Mills, Inc.	1225
CON-SPACE Communications Inc.	912	Los Alamos National Laboratory	1114	Wel-Fab, Inc	723
CRISTANINI S.p.A	1015	MacAulay-Brown, Inc	1027	Y-12 National Security Complex	1025
CUBIC Applications, Inc	1201	Microbial-Vac Systems Inc.	627	Zaphyr technology Corp.	1117
CUBRC	427	Military Medical Technology	1115		
Decon Systems	3	Modec, Inc.	1011		
Defense Group Inc. / CoBRA Software	707	Morphix Technologies	614		
DeltaNu	828	Mountain Top Technologies	1014		
Draeger Safety, Inc.	928	MSA	901		
DRASH (DHS Systems, LLC)	13	NABCO, Inc.	613		
DRS Technologies	702	NDIA	1124		
DRS Technologies	14	NISH	914		
DTRA / JSTO	402	NNSA's National Secure Manufacturing	825		
Dycor	512	Northrop Grumman	902		
EGG/LSI	1026	Nucsafe, Inc.	1024		
Environics USA	728	Oak Ridge National Laboratory	923		
Eensors, Inc	713	OI Analytical/CMS Field Products	609		
Evogen (formerly Sceptor Industries)	518	OptiMetrics, Inc.	1215		
Federal Resources	524	ORTEC	818		
First Line Technology	615	Parsons	913		
Foster-Miller, Inc.	917	PAUL BOYE TECHNOLOGIE	924		
GE Security - Homeland Protection	1101	PDQ Precision, Inc.	1116		
Genencor	617	Photon Systems, Inc.	425		
General Dynamics ATP	502	Pine Bluff Arsenal	616		
Geomet Technologies, LLC	816	Production Products	709		
Germfree Labs, Inc.	10	Proengin Inc.	811		
Global Ground Support	1128	QuickSilver Analytics, Inc.	428		
HDT, Engineered Technologies	1123	RAE Systems	915		

Joint CBRN Conference 2009

Exhibits Pavilion • June 22-25, 2009

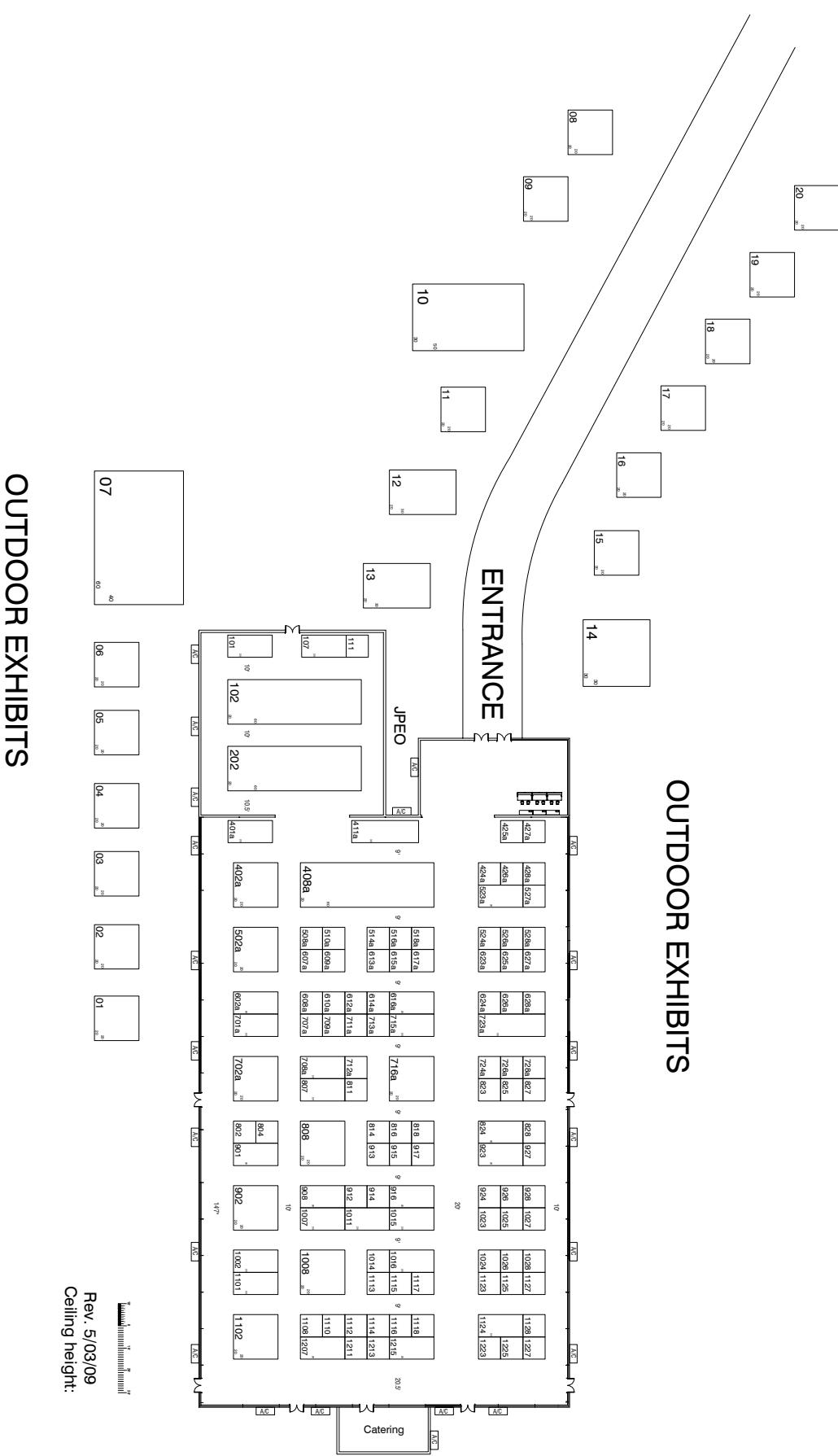
Fort Leonard Wood, Missouri

Fort Leonard Wood, Missouri

Live
Demo
Area

Live
Demo
Area

OUTDOOR EXHIBITS



Rev. 5/03/09
Ceiling height:


FIRST RESPONDERS' FIRST CHOICE.



A New Breed of
First Responder

CoBRA software serves as a Decision Support Tool for the full spectrum of CBRNE incident management; including preplanning, collaboration, training, response, and presumptive identification.

CoBRA supports the dismounted war fighter during Sensitive Site Exploitation, IED defeat, and HAZMAT response involving everything from TICs/TIMS to WMD.

To learn how CoBRA software is currently supporting the CBRNE community:

- Visit our booth at Joint Chemical Conference
- Visit our website: www.cobrafirstrresponder.com
- Email us at: [CoBRA Sales@defensegp.com](mailto:CoBRASales@defensegp.com)
- Call us at: 877-233-5789 X195

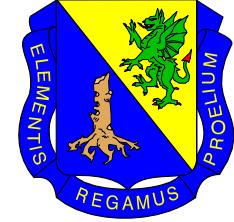
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JOINT CBRN CONFERENCE & EXHIBITION

23-25 June 2009

2009 Jt CBRN Agenda



Wednesday, 24 June

0900-0945	Opening Comments - NDIA Welcome - BG Dean Ertwine, USA (Ret) - Chief of Chemical Welcome – COL(P) Les Smith, USA - MANSCEN Welcome & Overview- MG Gregg Martin, USA
0945-1015	Keynote Address – Mr. Tim Morgan - Chief of Staff, Office of ASD for Global Strategic Affairs
1015-1030	Break
1030-1100	Mr. Peter Bechtel - Director, US Army Nuclear & Combating WMD Agency
1100-1130	MG Daniel Long, USA - CG, JTG Civil Support, USNORTHCOM
1130-1330	Lunch in Exhibit Pavilion

2009 Jt CBRN Agenda



Wednesday, 24 June (continued)

- 1330-1400 **Maj Gen Donald Fick, USAF**
- Director of Force Structure, Resources & Assessment (J8), National Guard Bureau
- 1400-1430 **BG Jess Scarbrough, USA**
- JPEO for Chemical & Biological Defense
- 1430-1445 **Mr. Vince Nardy**
- Chairman, CBD Acquisition Initiatives Forum
- 1445-1500 **Mr. Ron Evans**
- Director, CBRN Information Analysis Center
- 1500-1530 **COL Mark Malatesta, USA**
- Joint Program Manager for Guardian
- 1530 Closing Comments, Day 1
- 1530-1700 JPEO-CBD & Industry Demonstrations
- 1700-1830 Reception in Exhibit Pavilion

2009 Jt CBRN Agenda



Thursday, 25 June

0850-0915	Opening Comments - NDIA Welcome - COL Frank Cox, USA (ret) - Year of the NCO – CSM Ted Lopez, USA
0915-0945	Keynote Address – <u>Mr. Jean Reed</u> - Deputy Asst to the SECDEF for Chem. & Bio Defense / Chemical Demilitarization
0945-1015	<u>Ms. Dee Dodson Morris</u> - Chief of Staff, Joint Requirements Office, Joint Staff
1015-1030	Break
1030-1100	<u>COL Mike O'Keefe</u> - Deputy Director, Chem. & Bio. Technologies & JSTO for Chemical & Biological Defense, DTRA
1100-1130	<u>Mr. James Cooke</u> - Army T&E Executive / Jt. Chem Bio Def T&E Exec
1130-1330	Lunch in Exhibit Pavilion

2009 Jt CBRN Agenda



Thursday, 25 June (continued)

- 1330-1430 Panel: year of the NCO Initiatives
- **CSM Ted Lopez**, Regimental CSM, US Army Chemical Corps
- **CSM Pat Alston**, Senior Enlisted Advisor, DTRA
- **CSM Marvin Womack**, CSM, 20th SUPCOM (CBRNE)
- 1430-1500 **BG Jeff Snow, USA**
- CG, 20th SUPCOM (CBRNE)
- 1500-1530 **COL (P) Les Smith, USA**
- Commandant, US Army CBRN School & 25th Chief of Chemical
- 1530 Closing Comments
- **BG Dean Ertwine, USA (ret)**
- 1600 Conference Adjourns

Summary



- Surveys will be sent to attendees next Monday, 29 June
- Attendees will receive a link to the 2009 proceedings within the next two weeks
- Please plan to attend the 2010 Jt CBRN Conference & Exhibition



Test and Evaluation: How Well Your Equipment Performs



*Mr. James C. Cooke, Director
Deputy Under Secretary of the Army
Test and Evaluation Office*

25 June 2009



Unclassified

*Support the Warfighter to accomplish
mission!*



Unclassified



Topics

Why have Test and Evaluation (T&E)?

Who, where, and how is T&E supported?

How is T&E relevant and important to you?

The synergy of T&E and requirements

For more information on CBRND T&E....



Why Have Test & Evaluation?

- Ensure equipment fielded meets operational need
- Give decision makers information to make informed decisions about what the system brings to the battlefield



*Support the
Warfighter!*



Who supports T&E?

Test and Evaluation Office

Vision

- Serve as the SEC ARMY's Independent T&E Advisory link between the requirements, acquisition, and test and evaluation communities
 - Ensure T&E enterprise is structured and funded to address current and future needs
 - Synchronize all acquisition system evaluation activities
 - Ensure enterprise unity of effort and purpose, to bring best value to our Soldiers faster and at reduced cost

Mission

- Oversee all Army T&E Enterprise Missions, Functions, and Resources
- Serve as T&E Executive for Army and DoD Chem/Bio Defense Programs
- Be the independent senior advisor to SEC ARMY and CSA on all evaluation and test matters

DUSA TE is your Test and Evaluation Enterprise Authority



Who supports T&E?

Specified Tasks of the T&E Executive

- Oversight
 - Ensure Adequate and Credible Testing
 - Establish T&E Policy for Army and CBDP
 - Provide POM input to man, equip, train, and sustain ARMY/CBDP T&E Infrastructure
- Approve T&E Documents
- Advise Senior Leadership
- Coordinate and Facilitate
 - Promote early T&E community involvement in planning
 - Provide resolution for T&E issues

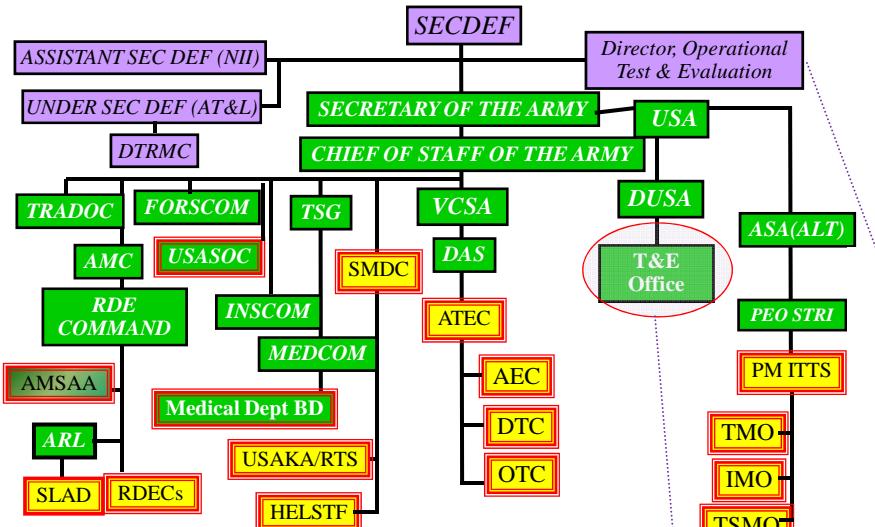
Army General Order 3 provides authority



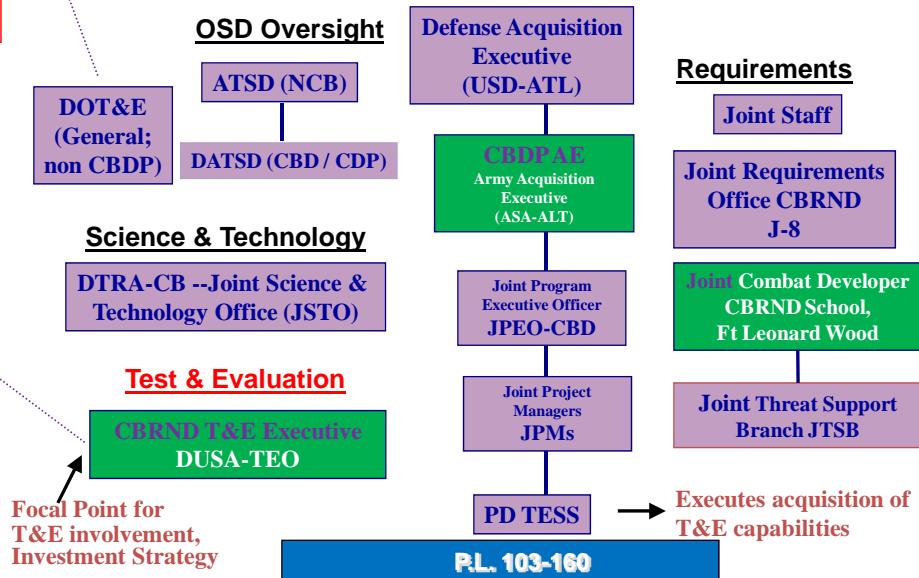
Who supports T&E?

Army and Chem Bio T&E Communities

Army T&E Community



Chemical and Biological Defense Community

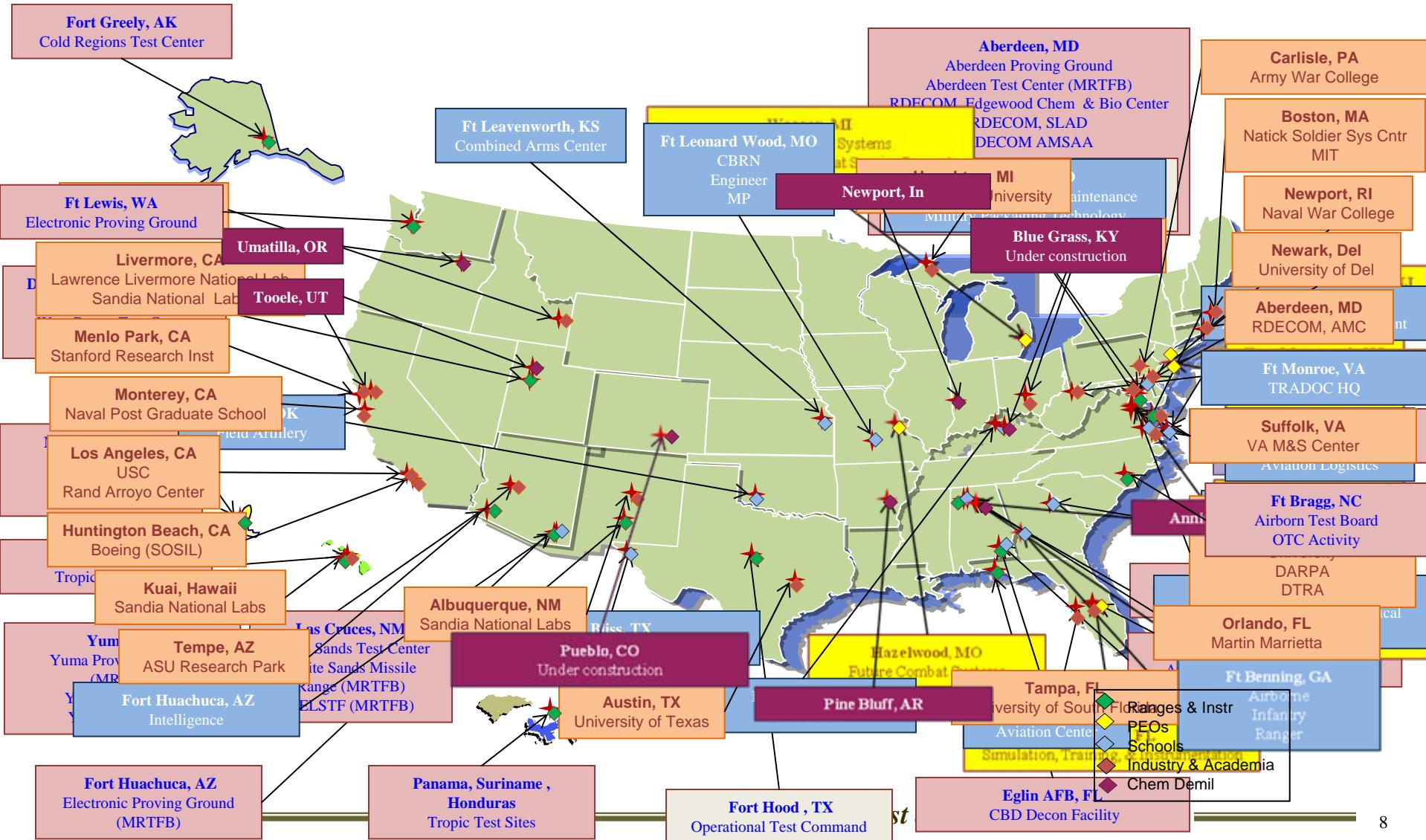




Where is T&E supported?



Army T&E Enterprise





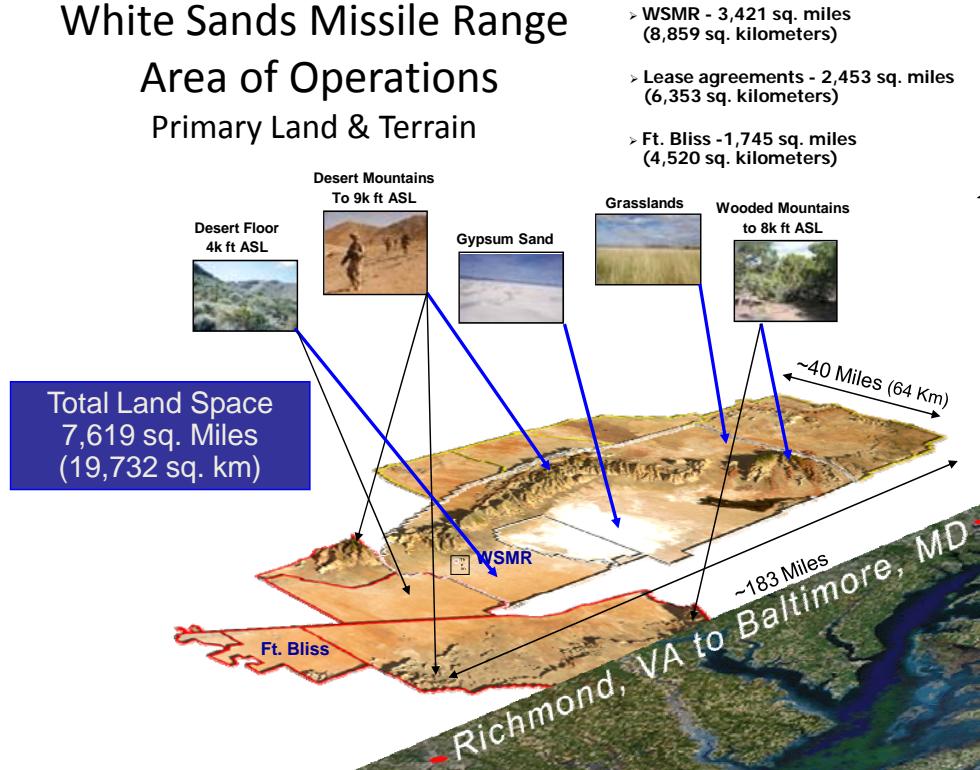
Where is T&E supported?



Magnitude of T&E Infrastructure

White Sands Missile Range

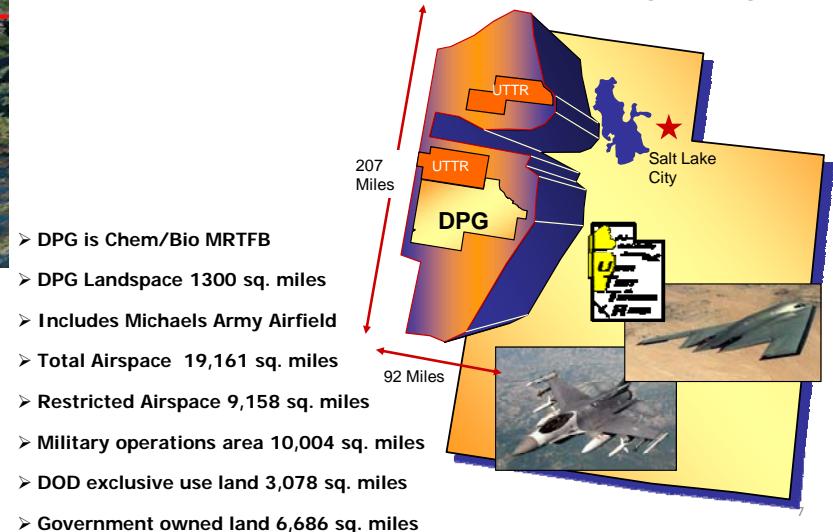
Area of Operations Primary Land & Terrain



- WSMR - 3,421 sq. miles (8,859 sq. kilometers)
- Lease agreements - 2,453 sq. miles (6,353 sq. kilometers)
- Ft. Bliss - 1,745 sq. miles (4,520 sq. kilometers)

Army T&E = Over 1/3 of Army Land Space

Dugway Proving Ground: Link with Utah Test and Training Range





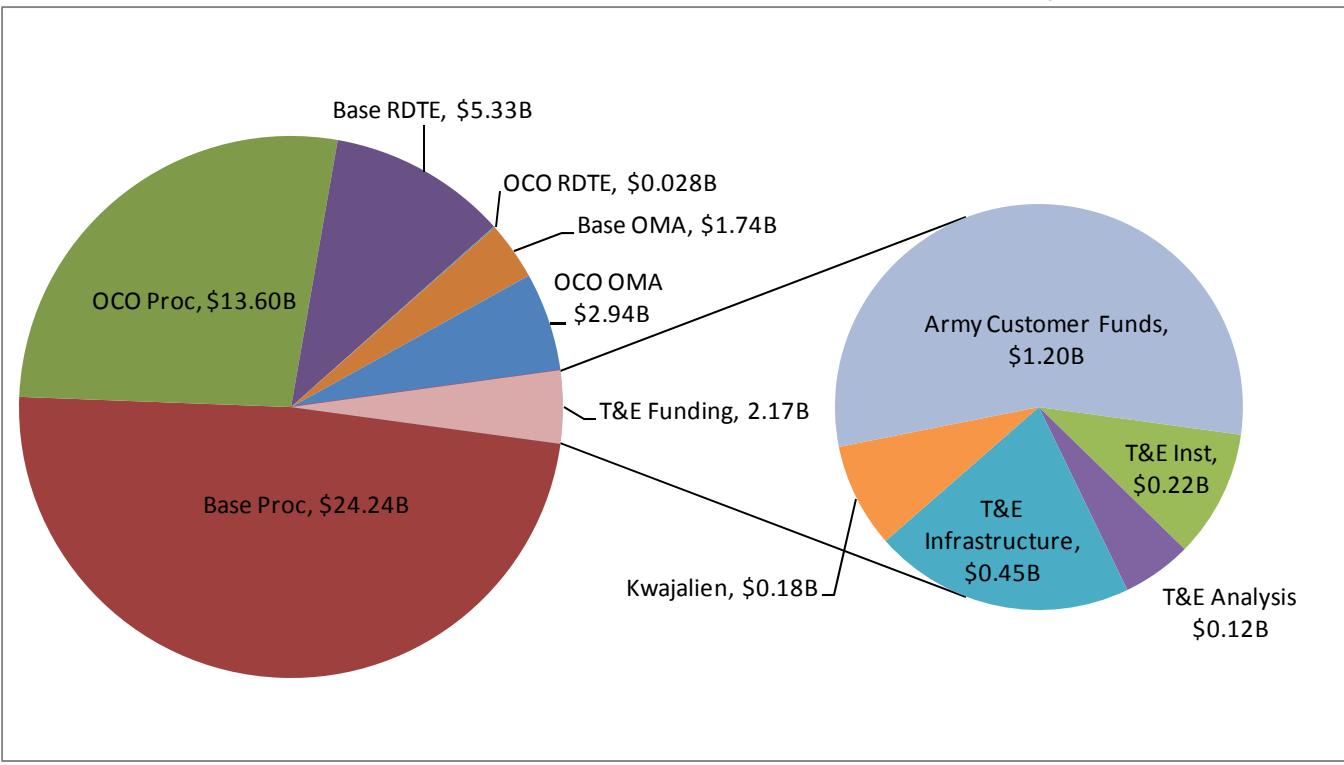
T&E Enterprise

High Value for Low Cost



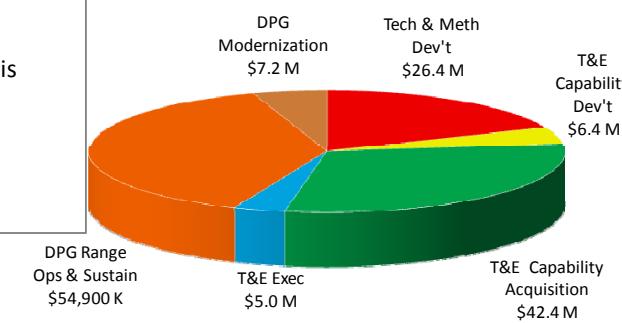
Army RDA
FY 09 Total: \$50B

Army T&E Enterprise
Total: \$2.2B



CBDPT&E Funds
FY 09 Totals

OSD CBDP Total: approx \$1.68B
T&E Infrastructure Total: \$142.3M



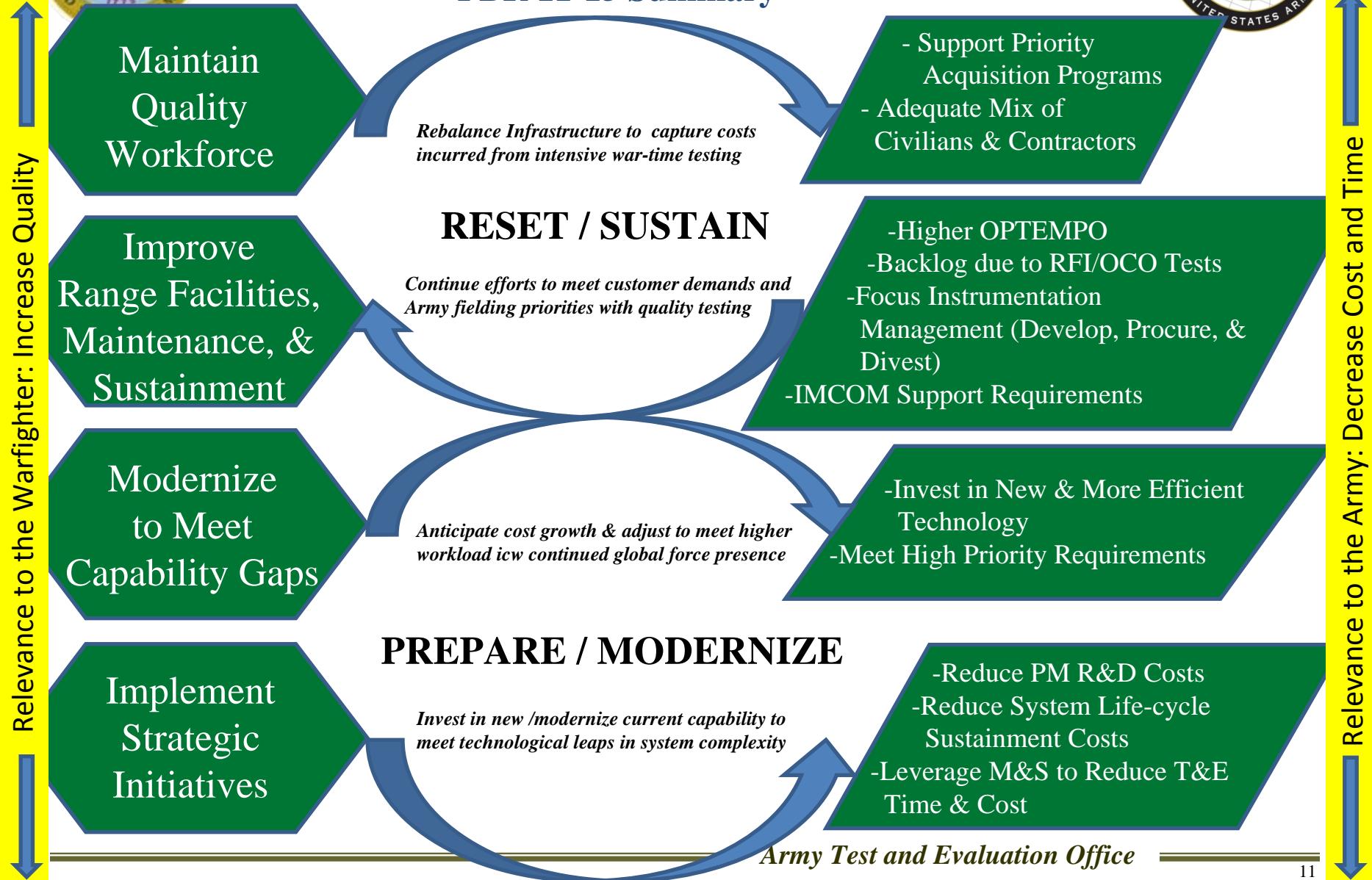
Ensures Value to Soldiers and Confidence to Congress



How is T&E supported?



Army T&E Resource Campaign Plan: PBR 11-15 Summary





How is T&E relevant and important?

- T&E is a critical part of the acquisition process
- Developmental T&E measure system characteristics and performance
UNDER THREAT CONDITIONS
- Operational T&E exercises system in operational environments to evaluate mission accomplishment
- Your missions are rigorous → T&E must be rigorous
- T&E tells you how well your systems work and where there may be some limitations

Better T&E → Better CBRND Systems → Better missions!



How is T&E relevant and important?



Test Standards Critical for Reliable T&E

T&E Capabilities and Methodologies IPT (TECMIPT) - Center of Gravity for CDP T&E Standards Development

- SMEs on Commodity Area Process Action Teams (CAPATs) review/approve T&E capability:
 - T&E Capability Requirements
 - Validation plans, reports and supporting data
 - Test Operations Procedures (TOPs)
- CAPATs thru TECMIPT recommend approval of T&E capability to T&E Executive when standards are validated
- Rigorous T&E Standards ensure:
 - Repeatable, accurate test data with evaluator buy-in
 - T&E capabilities meet test requirements
 - Test duplication minimized - T&E cost and schedule reduced

T&E Standards
for a T&E Capability



How does M&S support T&E?

- Can be used to support down selection decisions
- Estimate performance envelope
- Used to develop test scenarios and mission profiles
- Expands the test envelope
 - simulate variety of environmental and operational conditions
 - relies on quality test data to prove the model



How is T&E relevant?



M&S and T&E Mutually Supportable

		M&S Applications			
		Pre-test	Test	Post Test	
M&S Type	A	Estimate performance envelope. Plan & rehearse data acquisition.	Create loading with simulators and stimulators. Drive instrumentation.	Assess vulnerability Examine alternative environments.	
	B	Develop test scenarios and mission profiles.	Scenario driver for command, control, communications and intelligence.	Supplement test results. Examine effects of test limitations on evaluation.	
	Predict Model	→	Observe Test	→	Apply Model

M&S Types

A - Engineering
B - Combat

Test Applications

M&S Type	A	Pre-test	Test	Post Test
	B	Estimate weak M&S areas. Address M&S assumptions. Obtain missing M&S data.	Developmental Test conducted to fill M&S data voids.	Rerun M&S with <u>actual</u> test data to confirm validity of initial M&S results.
		Run M&S using estimated: <ul style="list-style-type: none">- human performance- man-in-the-loop- doctrine- tactics, techniques, and procedures (TTPs)	Operational Test conducted to measure: <ul style="list-style-type: none">- actual performance- combat doctrine- TTPs	Re-calibrate M&S with <u>actual</u> test data. Re-estimate M&S system performance. Determine ROI to combat unit.

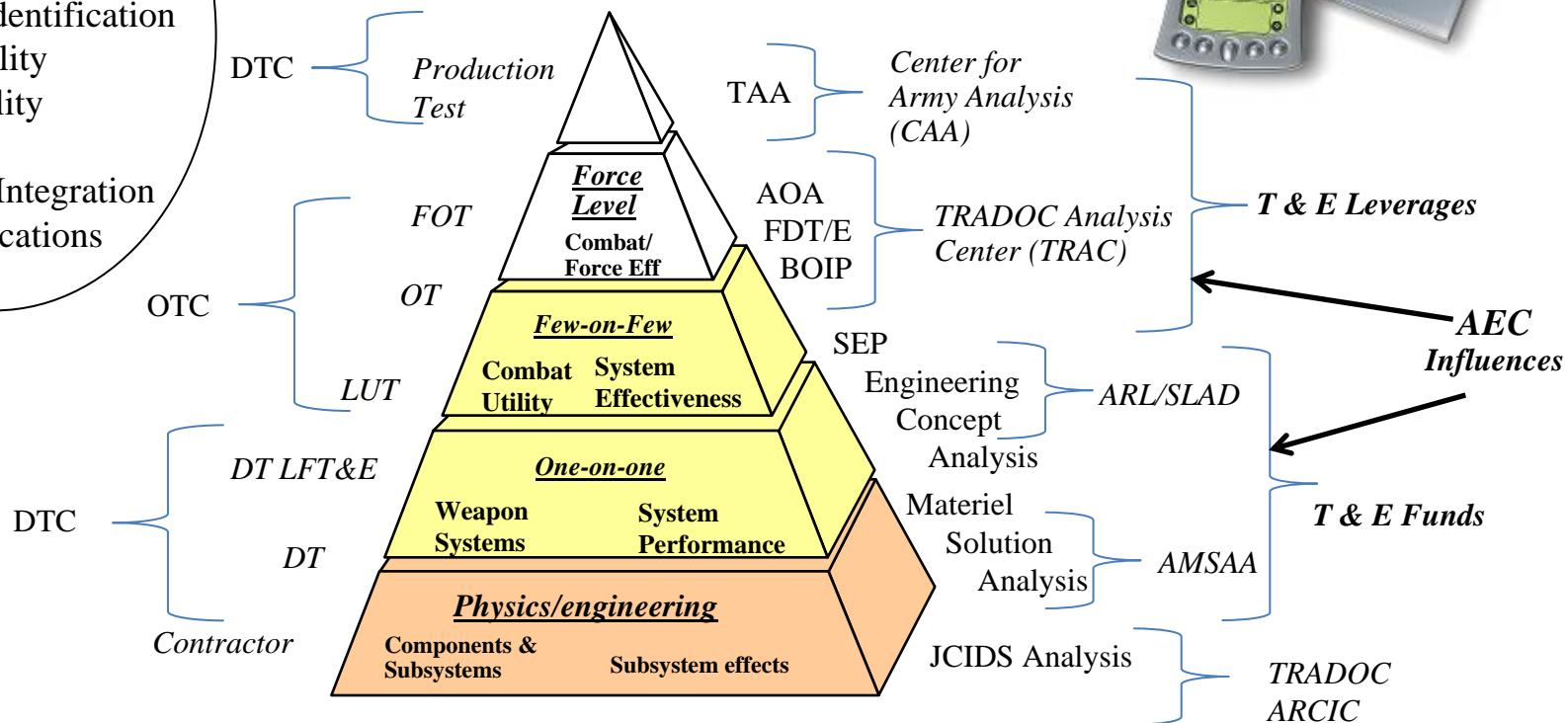


How is T&E relevant?

Analysis and Evaluation

Lethality
Active Protection
Delivery Accuracy
Target Acquisition
Combat Identification
Vulnerability
Survivability
Mobility
Software Integration
Communications

Provides decision data for Army leadership





Synergy of T&E and Requirements

- Ensure system requirements are operationally relevant
- Early development of Concept of Employment/CONOPS critical to all phases of acquisition planning
 - Why do you need it?
 - Where will it be used on the battlefield?
- Well rationalized Critical Operational Issues/Criteria
- Get systems to warfighter faster
 - T&E standards minimize repeat testing
 - find and fix problems early
- Keep test costs down

Rqmts/User
Community

Test Community



Synergy of T&E and Requirements

Operationally Relevant KPPs

- Mission based
- Not technical parameters
- What is significant capability required that improves current operations?
- What is minimum acceptable including doctrine changes (threshold)?
- What would be ideal (objective)?



Summary

- T&E is critical to mission success, decision support
- DUSA TE is T&E Enterprise Authority
 - Ensure adequacy of T&E events and infrastructure
 - Strategic direction for T&E Enterprise
 - Advise Senior Leadership for program success
 - As the CDP T&E Executive, develop T&E Standards for the CDP
- Well defined, operationally relevant user requirements are critical for ensuring adequate and credible testing and successful systems
 - Requirements are relevant when supported by analysis and aligned to mission needs
 - M&S can support linking all analyses and is reinforced by T&E



Chemical, Biological, Radiological and Nuclear Defense Information Analysis Center

Ron Evans
Director



CBRNiac
*Chemical, Biological, Radiological & Nuclear Defense
Information Analysis Center*



Information

Analysis Centers (IACs)



CBRN IAC
Chemical, Biological, Radiological & Nuclear Defense
Information Analysis Center

- Chartered by DoD to generate, collect, analyze and disseminate scientific and technical information
- Provide comprehensive databases, analysis, tools and techniques, and reach-back
- Contractor operated under Defense Technical Information Center (DTIC)
- Support DoD, Other Federal Agencies, Contractors, and State and Local Governments and Emergency Responders

- Chemical, Biological, Radiological and Nuclear Defense
- Survivability/Vulnerability
- Reliability
- Advanced Materials, Manufacturing, and Testing
- Sensors
- Information Assurance
- Weapon Systems Technology
- Data and Analysis Center for Software
- Chemical Propulsion
- Modeling and Simulation

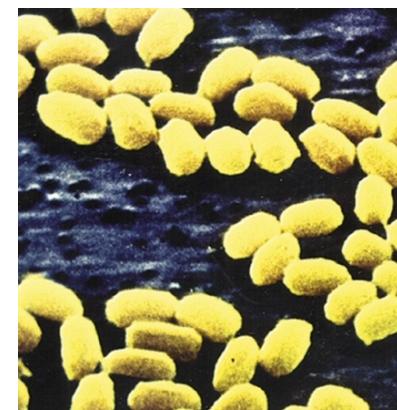
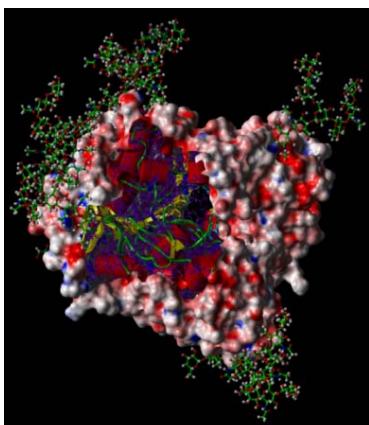


Background/History



CBRN-IAC
Chemical, Biological, Radiological & Nuclear Defense
Information Analysis Center

- DDR&E and DUSD(S&T)
 - Information Analysis Center (IAC) oversight
- Defense Technical Information Center (DTIC)
 - Implements policies
 - Operational control of ten DoD sponsored IACs
 - Government Owned Contractor Operated (GOCO)
 - Each IAC covers specialized science and technology areas
- CBRNIAC
 - Established as CBIAC in 1986; re-designated CBRNIAC in 2007
 - Broad technical scope covering CBRND and HLS
 - Technical guidance/direction: Executive Steering Committee (ESC) and Scientific Research Council (SRC)

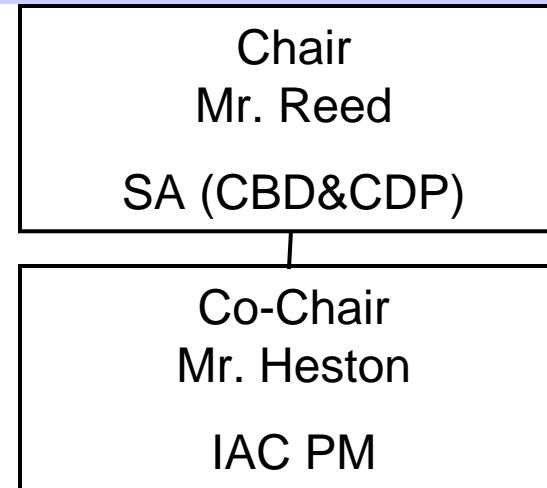




Executive Steering Committee



CBRN-IAC
Chemical, Biological, Radiological & Nuclear Defense
Information Analysis Center



Members

- DTRA: Dr. Galloway
- Army: Mr. Decker
- Navy: Mr. Purello
- Joint Staff: COL Barnett
- USAF: Dr. Stotts
- USMC: Dr. Stark
- Medical : Dr. Churilla
- DIA: Mr. McNulty
- JPEO-CBD: BG Scarbrough
- USACBRNS: COL(P) Smith

Associate Members

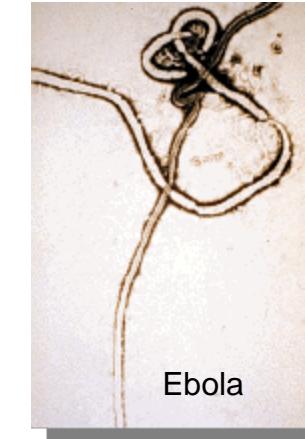
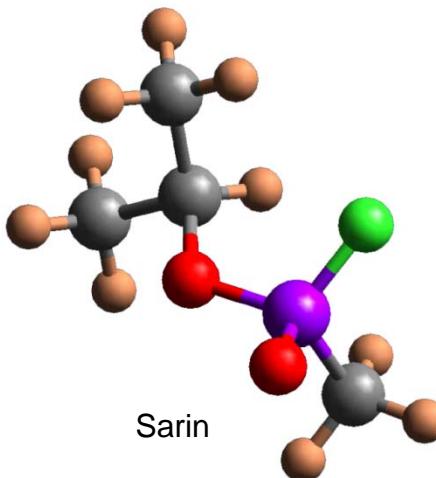
OSTP, OMB, USDA, DOE, DOJ, DOS, HHS, DHS, FEMA, EPA, OSD(HD),
FDA, CIA, OSD (Policy), SO/LIC, TSWG, USCG, USANCA, CDC



Technical Scope



- Chemical and Physical Properties of CW/CBD Materials
- Toxicology
- Warning and Identification
- Medical Effects and Treatment
- Treaty Verification
- International Technology, Proliferation and Control
- Individual and Collective Protection
- Chemical Identification
- Environmental Fate and Effects
- Decontamination
- NBC Survivability
- Combat Effectiveness
- Smoke and Obscurants



- Demilitarization
- Analysis of Manufacturing Processes for NBC Systems
- Defense Conversion & Dual Use Technology Transfer
- Domestic Preparedness / Homeland Security
- Force Protection
- Counterterrorism
- Counterproliferation
- Toxic Industrial Chemicals/Materials (TICs/TIMs)
- Radiological and Nuclear Defense



Operations



CBRN IAC
Chemical, Biological, Radiological & Nuclear Defense
Information Analysis Center

- Edgewood Area, Aberdeen Proving Ground, MD
- Washington, D.C.
- Jacksonville, NC
- San Antonio, TX
- Natick, MA
- Dugway Proving Ground, UT
- St Robert, MO



Maneuver Support Center



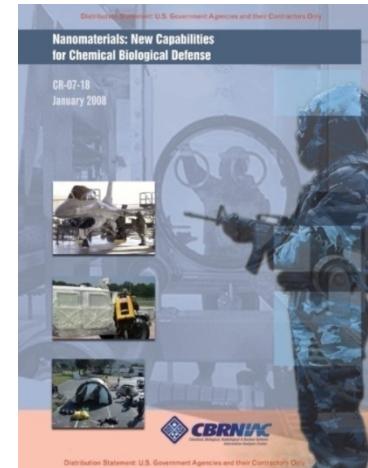
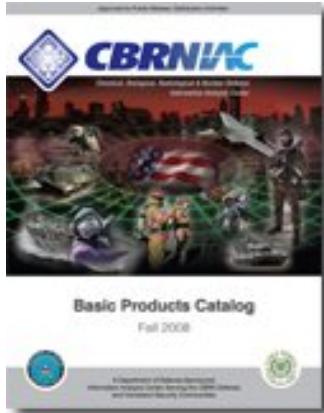


Core Program Services & Products



CBRNIAc
Chemical, Biological, Radiological & Nuclear Defense
Information Analysis Center

- **Inquiries and Analysis (4 Hours Free)**
 - Information
 - Technical
 - Bibliographic
 - Referrals
 - Gateway to CBRNIAC reach-back
- **CBRNIAC Website (<http://www.cbrniac.apgea.army.mil>)**
 - Recently redesigned, user friendly
 - One stop shop: Inquiries, Products, Tech Support, etc.
- **Newsletters/Brochures/Outreach**
- **Products**



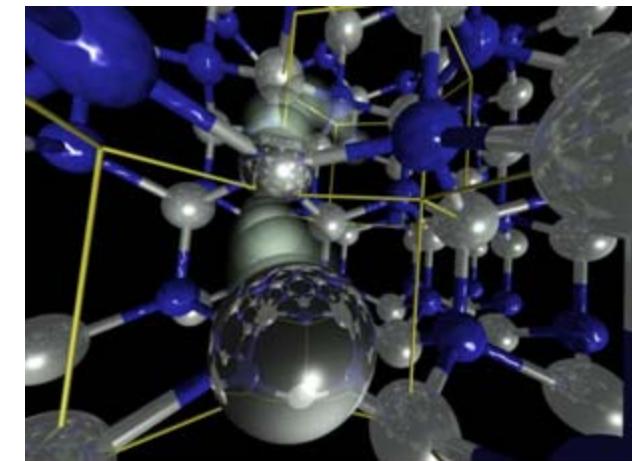


Information Resources



CBRNIAc
Chemical, Biological, Radiological & Nuclear Defense
Information Analysis Center

- CBRN Scientific & Technical Analysis & Research Tool
 - Over 161,000 records
- Holdings - over 150,000 items
- Other CBRNIAC Databases and Collections
 - Chemical Biological Materials Effects Database (CBME)
 - BACWORTH
 - Agent Fate and Effects
 - Agent Simulant Knowledge (ASK Database)
 - Chemical Weapons (CW) Treaty Reference Collection
 - Biological Weapons (BW) Treaty Reference Collection
 - Biological Warfare (BW) History
- DTIC Total Electronic Migration System
- Numerous outside data sources
 - STINET
 - RDECOM STILAS
 - DENIX
 - NLM
 - ChemFinder
 - NIST
 - NIOSH
 - DIALOG
 - DOE
 - DPG TIC





Total Electronic Migration System



CBRN-IAC
Chemical, Biological, Radiological & Nuclear Defense
Information Analysis Center

- Total Electronic Migration System (TEMS) allows registered DTIC users to search the 10 DoD IACs' electronic holdings using any Web browser.
 - Unclassified material accessed through the Internet.
 - TEMS classified accessed via SIPRNET.
- TEMS provides full-text search capabilities.
- TEMS contains:
 - Over 1,209,000 citations
 - Over 304,000 documents
- Access TEMS at <https://tems-iac.dtic.mil>
- Register for access at <https://register.dtic.mil>
- TEMS Contact Information

Defense Technical Information Center
IAC Program Management Office (DTIC-AI)
8725 John J. Kingman Blvd, Suite 0944
Fort Belvoir, VA 22060-6218
Phone: 703.767.9120
E-mail: tems@dtic.mil



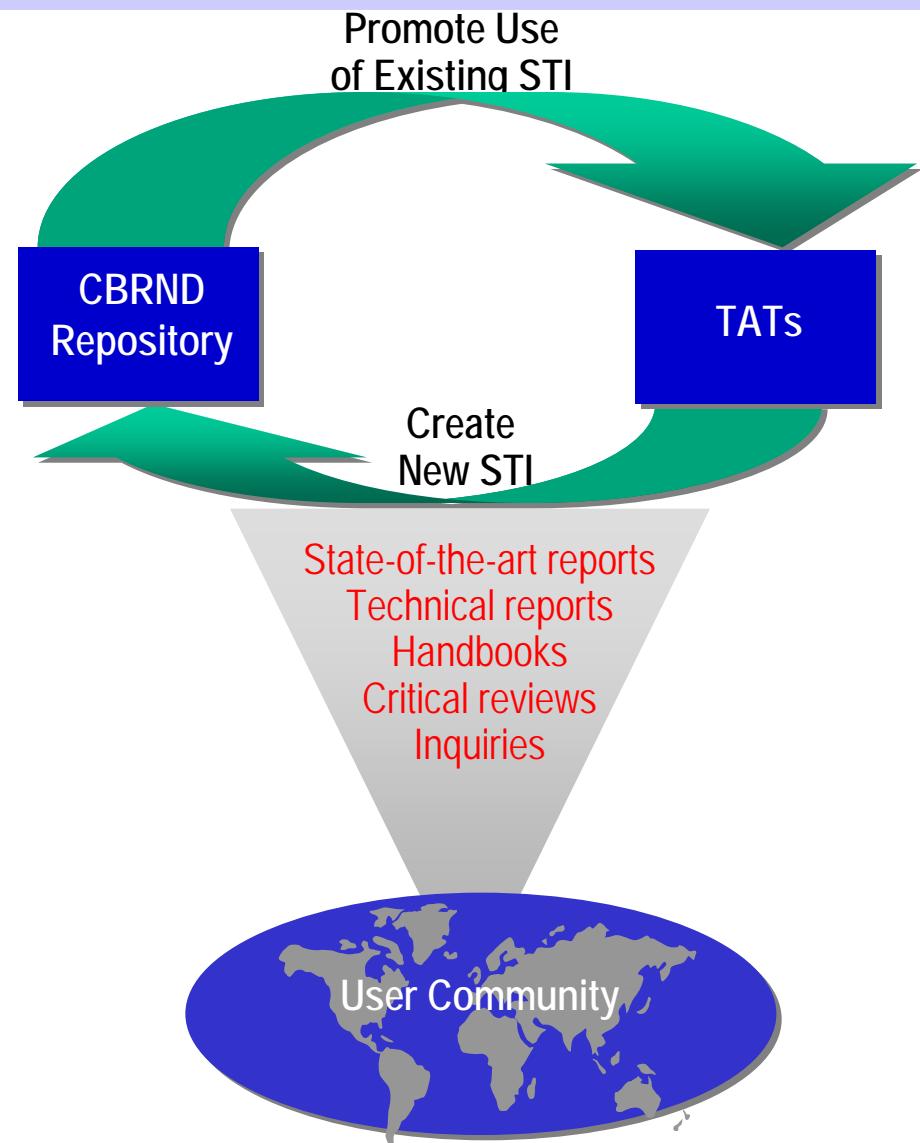


Technical Area Task Program



Concept

- Provide an ID/IQ mechanism to support client technical requirements beyond basic IAC operations
- Create new scientific and technical information (STI) to meet immediate user requirements
- Incorporate TAT STI into CBRNIAC CBRND repository
- Leverage TAT STI to support broader user needs/applications





Summary



CBRNIAc
Chemical, Biological, Radiological & Nuclear Defense
Information Analysis Center

- CBRNIAC assists DTIC in supporting the community
- CBRNIAC addresses CBRN Defense and Homeland Security issues
- Core Program
 - No Cost Inquiry Support
 - Comprehensive CBRND Repository
 - Newsletters
 - State-of-the-Art Products
 - Gateway to CBRNIAC reach-back
 - “One-Stop Shop” Website
 - <http://www.cbrniac.apgea.army.mil>
- Technical Area Tasks
 - Responsive
 - Easy to Use
- Knowledge Management Capabilities
- CBRNIAC Focuses on Customer Service

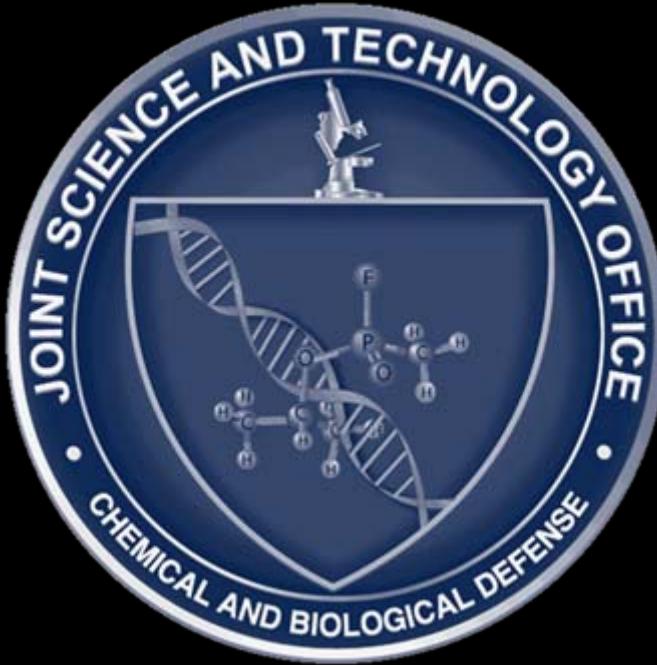


**Your “One Stop Shop”
for CBRND/HLS Support**



Points of Contact

- Mr. Ronald L. Evans, Director
 - 410-676-9030
 - evansrl@battelle.org
- Dr. Jim King, Deputy Director
 - 410-612-6420
 - kingj@battelle.org
- Ms. Janice Rhodes, TAT Manager
 - 410-612-6423
 - rhodesj@battelle.org
- Ms. Jeanne Rosser, Technical Inquiry Manager
 - 410-612-6419
 - rosserj@battelle.org
- Website
 - <http://www.cbrniac.apgea.army.mil>



Making the World Safer

Chemical & Biological Defense Science & Technology

COL Mike O'Keefe

Distribution Statement A: Approved for Public
Release; distribution is unlimited



The Mission



DTRA Mission

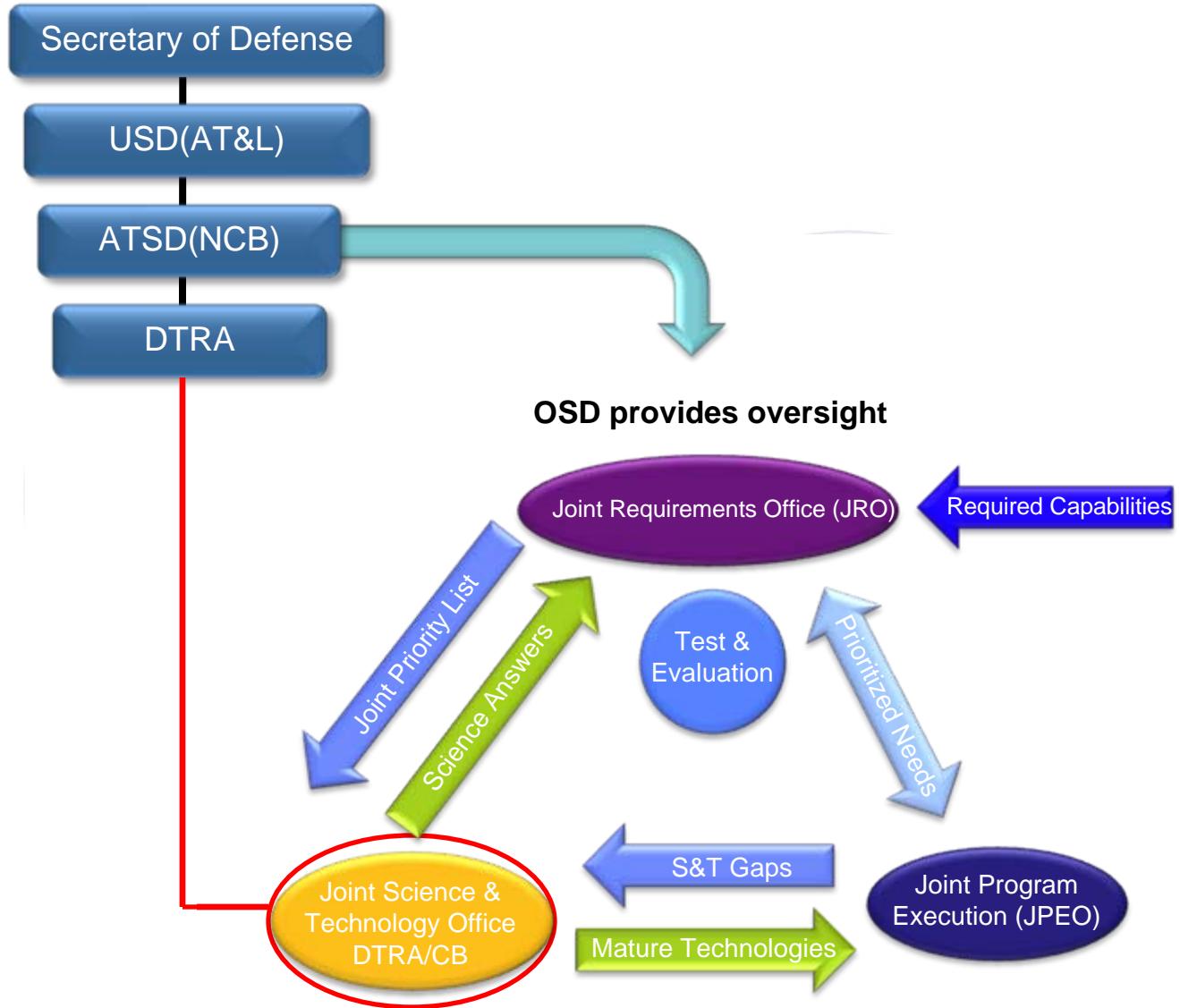
The mission of the Defense Threat Reduction Agency (DTRA) is to safeguard the United States and its allies from weapons of mass destruction (WMD) (chemical, biological, radiological, nuclear and high-yield explosives, or CBRNE) by providing capabilities to reduce, eliminate and counter the threat, and mitigate its effects

Joint Science & Technology Office for Chem Bio Defense

Manages and integrates the development, demonstration, and transition of timely and effective chemical and biological defense solutions for the Department of Defense, while serving as the focal point for science and technology expertise



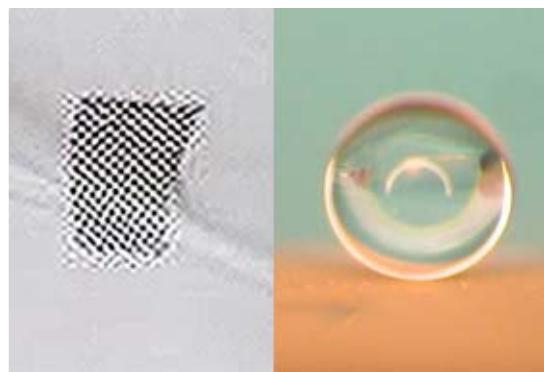
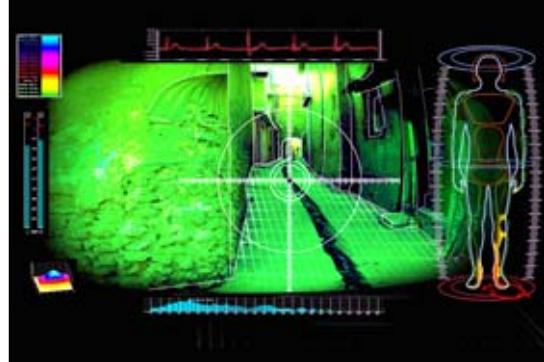
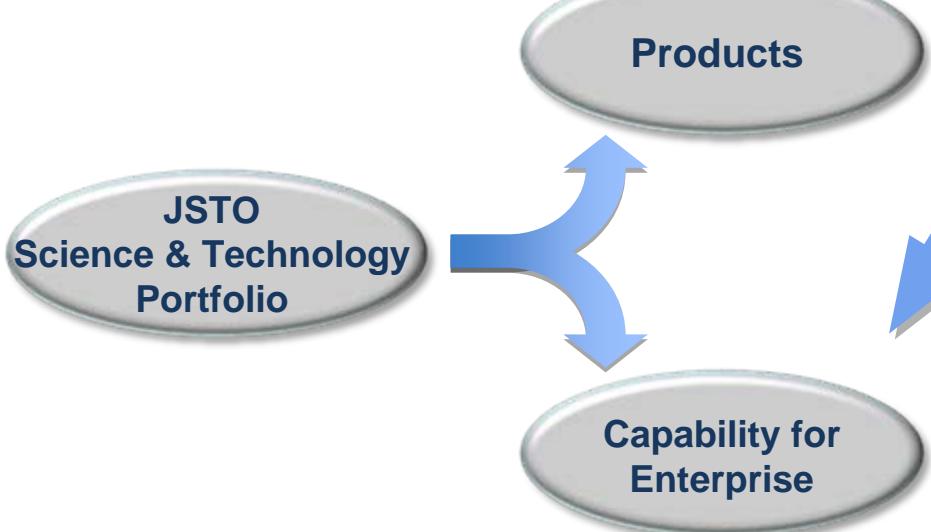
DTRA Role in Chem-Bio Defense



Guiding S&T Investment



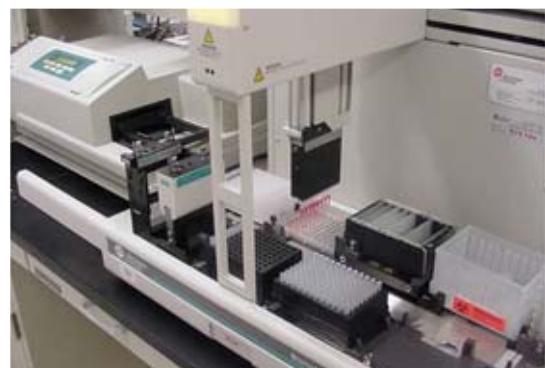
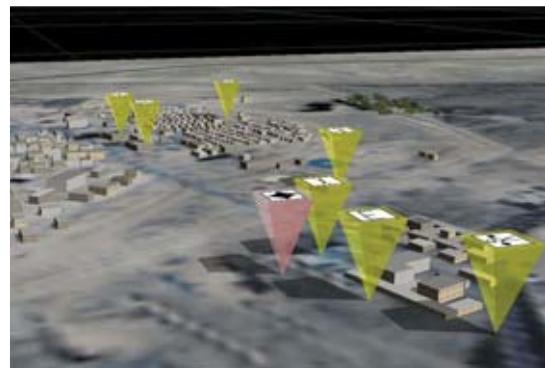
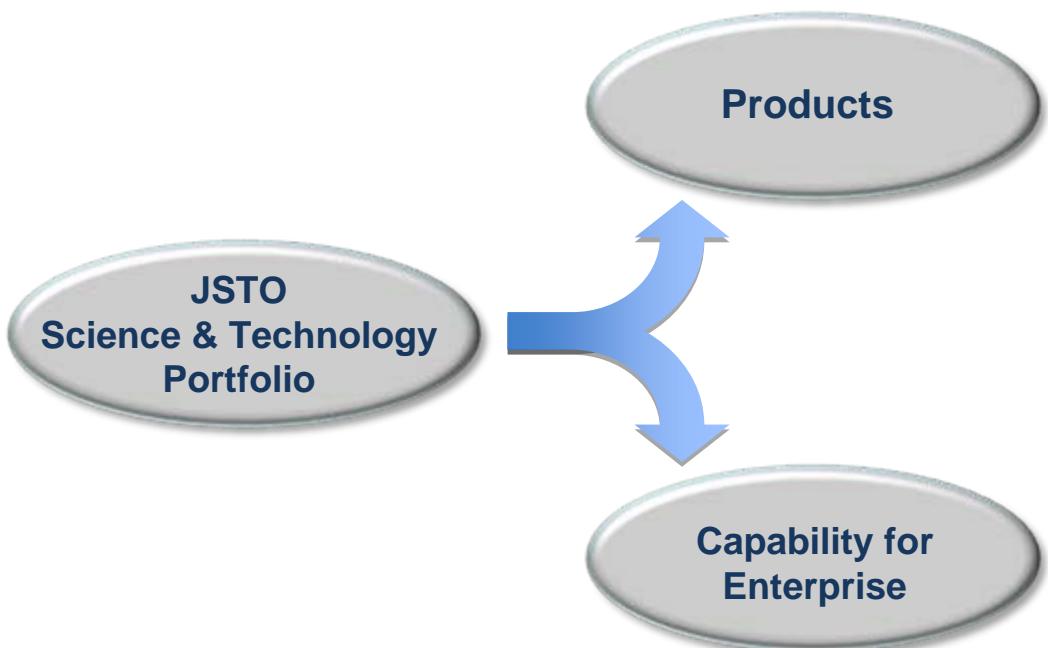
Investments are targeted using several sources of guidance and requirements



Understanding the Threat



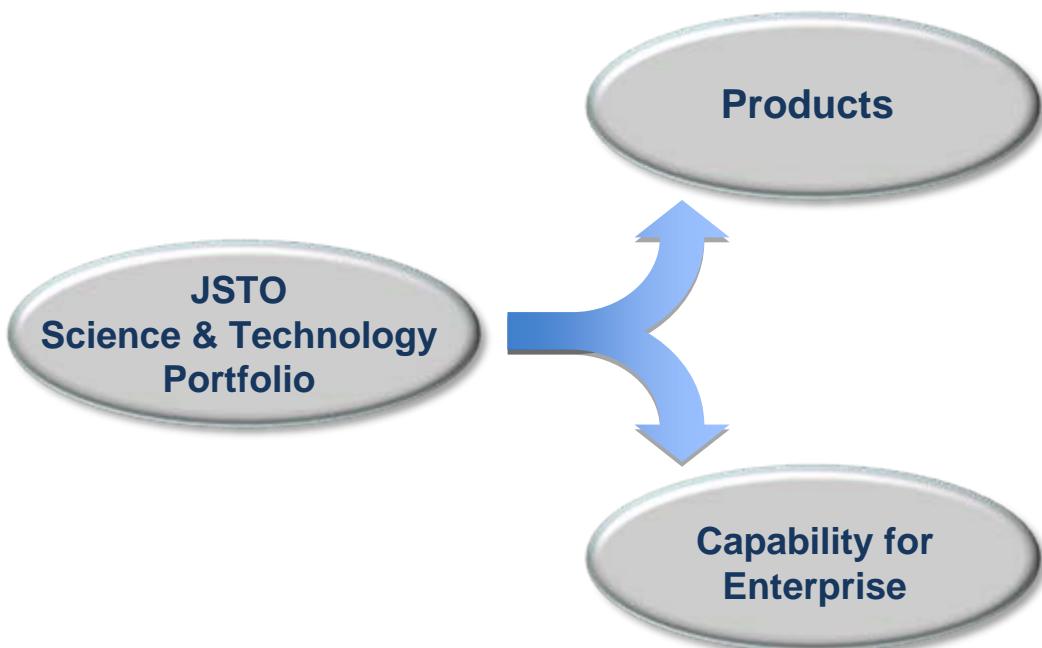
- Detection and identification
- Early warning
- Pre-symptomatic diagnostics



Protecting Against the Threat



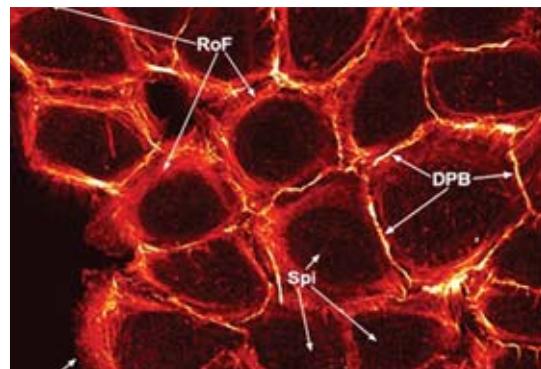
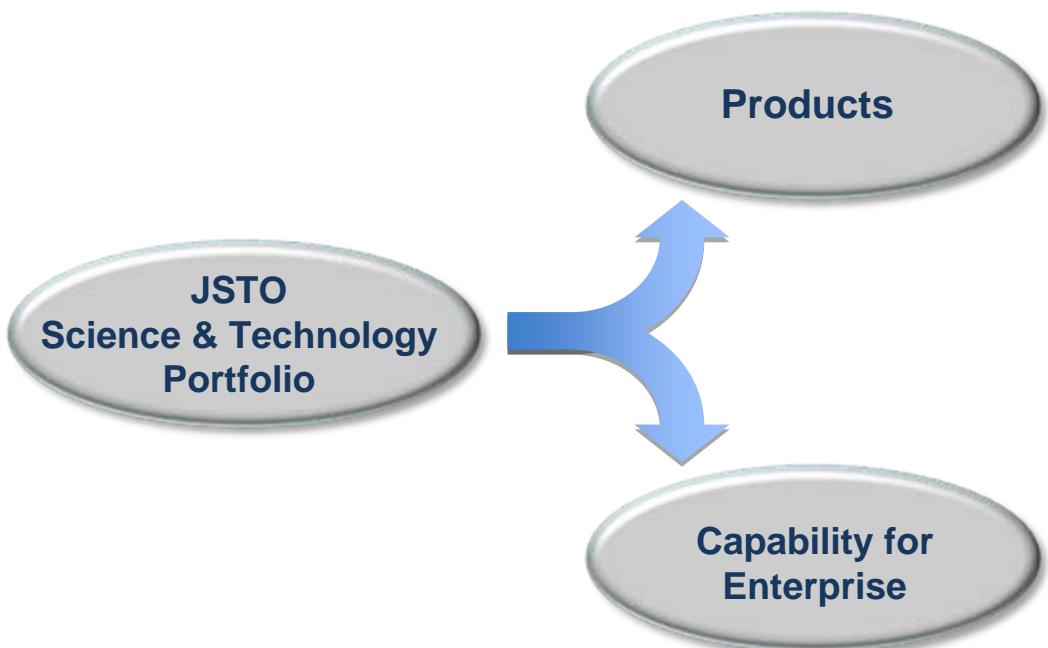
- Individual protection
- Enhanced filtration
- Medical prophylaxis



Minimizing the Threat



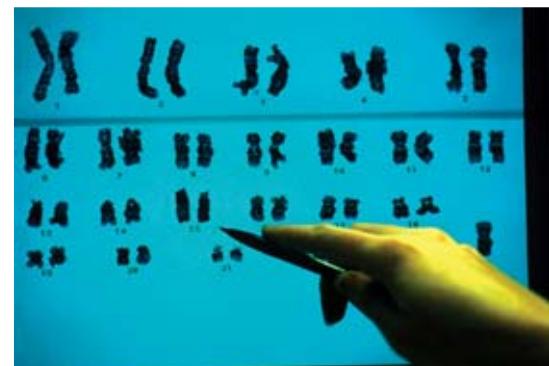
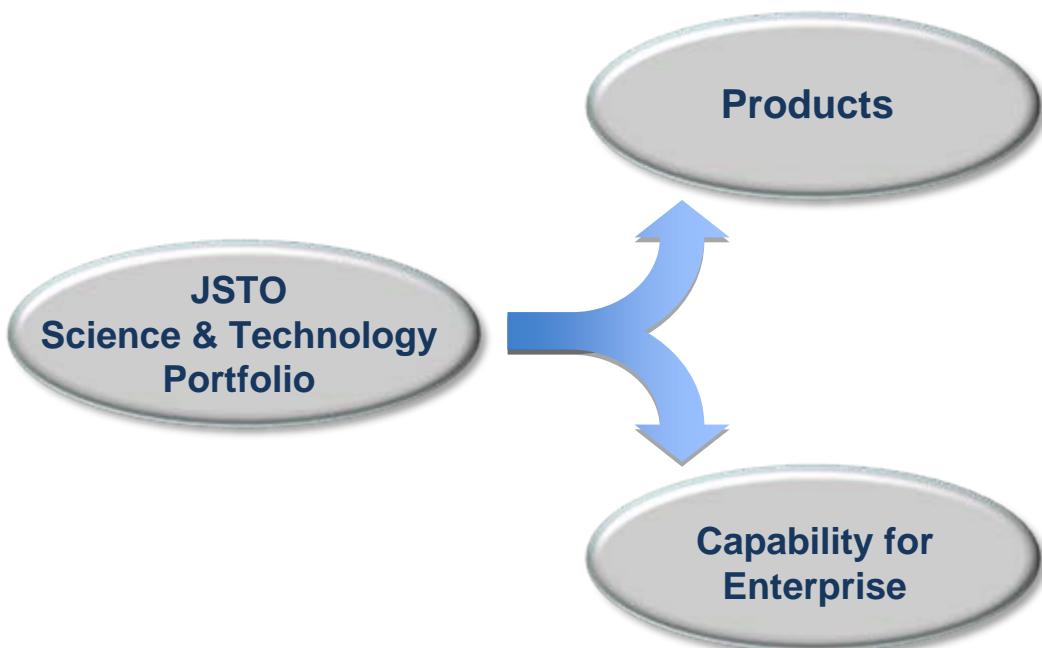
- Decontamination
- Therapeutics
- Recovery



Anticipating Future Threats



- Exploiting rapid technology advances
- Ensuring S&T capability for the future



Take Aways

- DTRA counters the entire range of WMD, across the full scope of military operations
- DTRA brings forward the best technology for future capabilities
- DTRA makes warfighter needs foremost



***Meeting the WMD Challenge...
Making the World Safer***

Questions ?



• DTRA



This Brief is Classified:
UNCLASSIFIED



Joint Task Force Civil Support

JCBRN Conference

24 June 2009



Catastrophic Concerns





“The scenarios... are so hard for us to contemplate and so emotionally traumatic that it is tempting to push them aside. However now is the time to have this difficult conversation.” Sen Joseph Lieberman(I-Conn)



"In my opinion, the prospects of a future attack against the United States are almost certain. ***It's not a matter of if, but when.***"

Former Vice President Dick Cheney



"It will happen again..." General McCaffrey



...A Matter of When





USNORTHCOM Mission Statement

USNORTHCOM *anticipates* and conducts Homeland Defense and Civil Support operations within the assigned area of responsibility to **defend, protect, and secure** the United States and its interests





UNCLASSIFIED

NORTHCOM's Role

- Ensure U.S. Homeland is a difficult target
 - Layered defensive networks of systems, devices, personnel and information.
 - Significant investment in chemical and biological defense, protection and response technologies.
 - World leader CBRNE related science and technology, research and development, and testing and evaluation.





NORTHCOM Capabilities

- A robust CBRNE detection and attribution infrastructure.
 - CBRNE forensics are used to determine the origin of threat materials in both pre and post events.
 - Bio-forensic capability demonstrated in the aftermath of the 9/11 attacks. Maturing science that faces legal examination.
 - Law enforcement employs advanced techniques to detect explosives and drug residue in fingerprints.





ARNORTH Mission Statement

USARNORTH conducts Homeland Defense (HLD) and Civil Support (CS) operations, and Theater Security Cooperation (TSC) activities, as the Army Service Component Command (ASCC) to U.S. Northern Command in order to protect the American people and their way of life. On order, USARNORTH commands and controls deployed forces as a Joint Task Force (JTF) or Joint Force Land Component Command (JFLCC).





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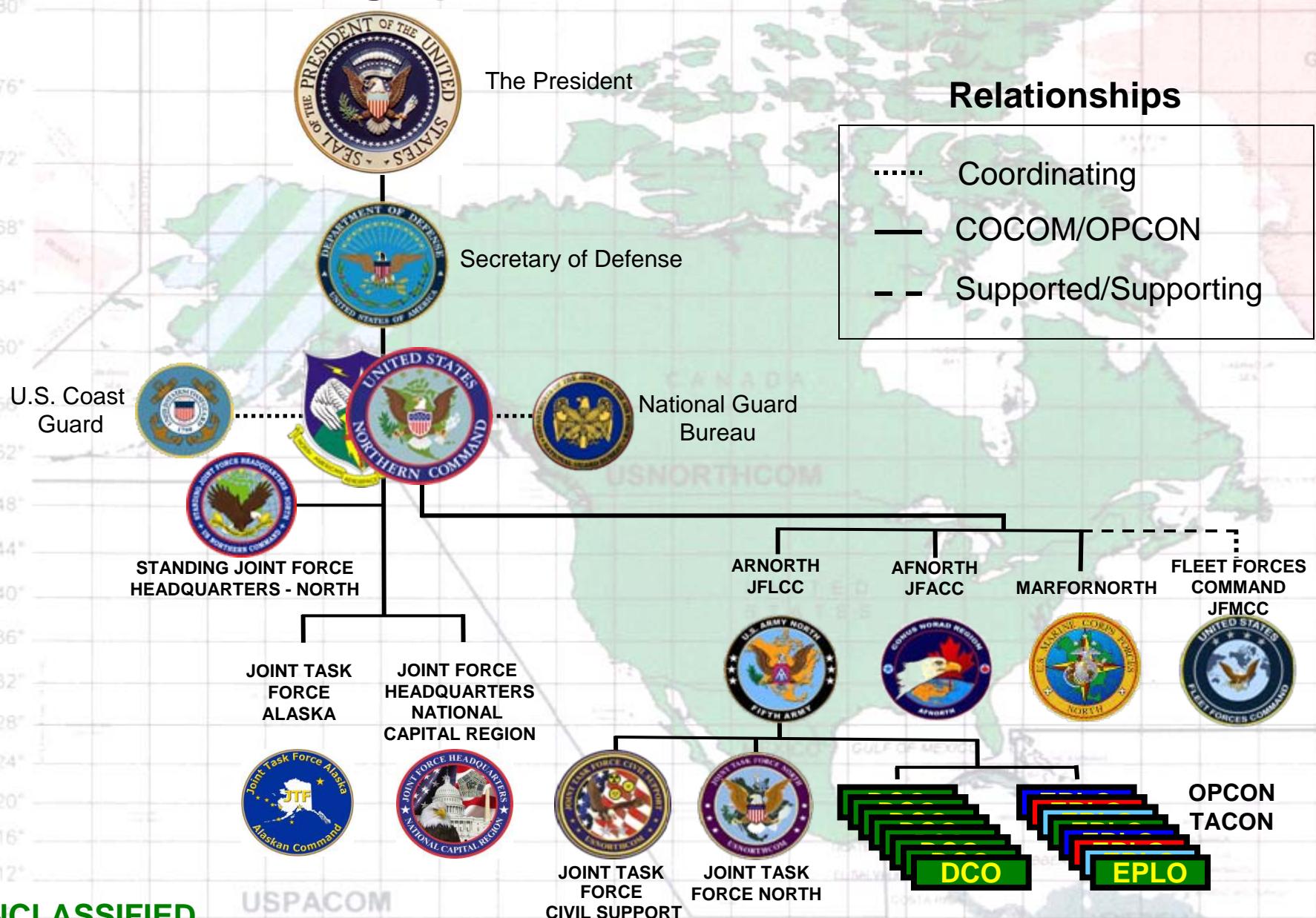
JTF-CS Mission

JTF-CS anticipates, plans and integrates USNORTHCOM Chemical, Biological, Radiological, Nuclear, and high-yield Explosive (CBRNE) Consequence Management operations and when directed, establishes command and control of DoD forces for a CBRNE incident to assist local authorities in saving lives, preventing injury, and providing temporary critical life support



USNORTHCOM Organization Chart

Geographical Combatant Command



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UNCLASSIFIED

“It is bringing capability and capacity at the right time at the right place, not overwhelming the receiving state, but bringing in something that is sorely needed...the governor is the commander in his or her state.” “ ...not too soon, but not a second too long...”

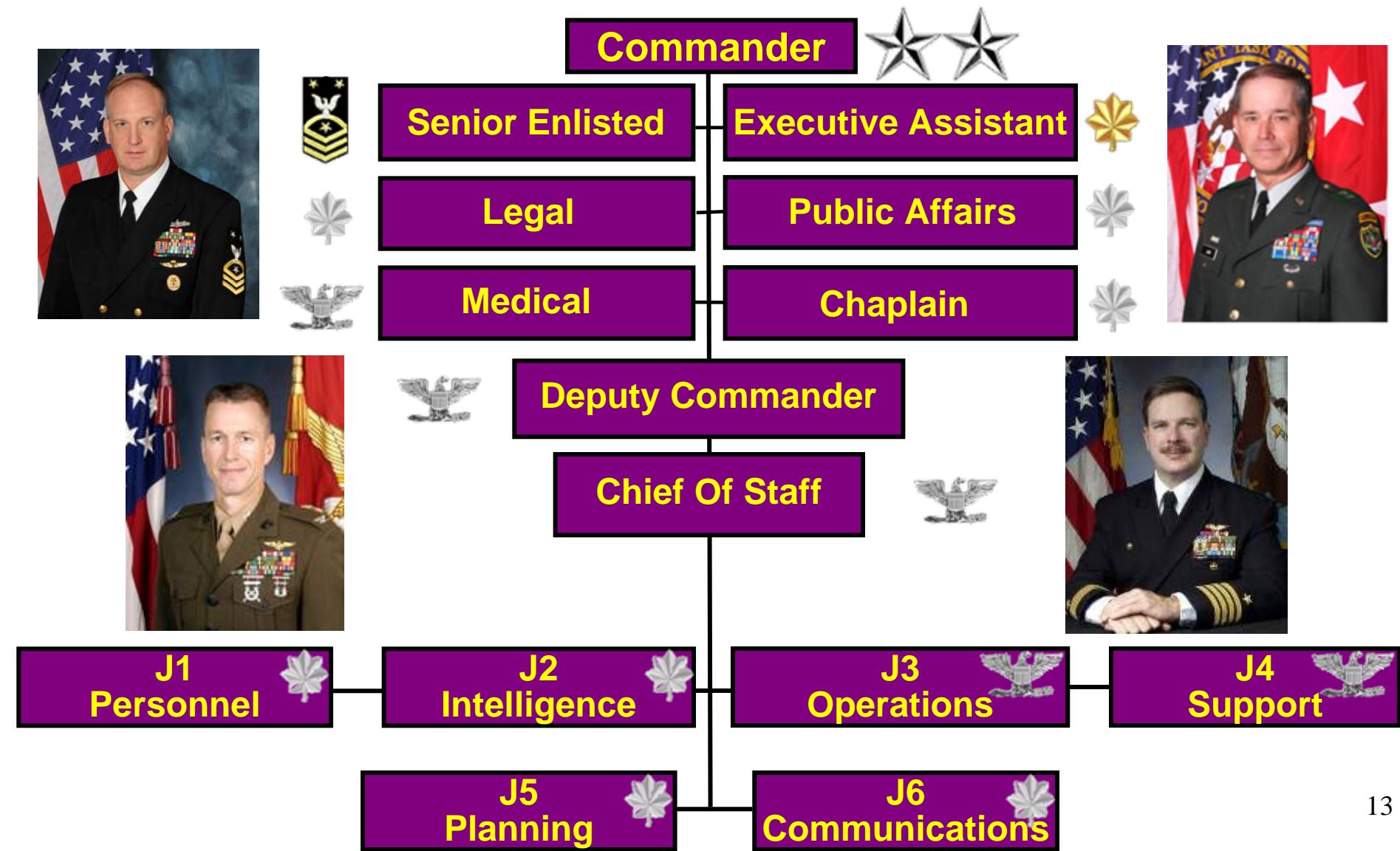
General Victor E. Renuart Jr.
Commander
NORAD & USNORTHCOM

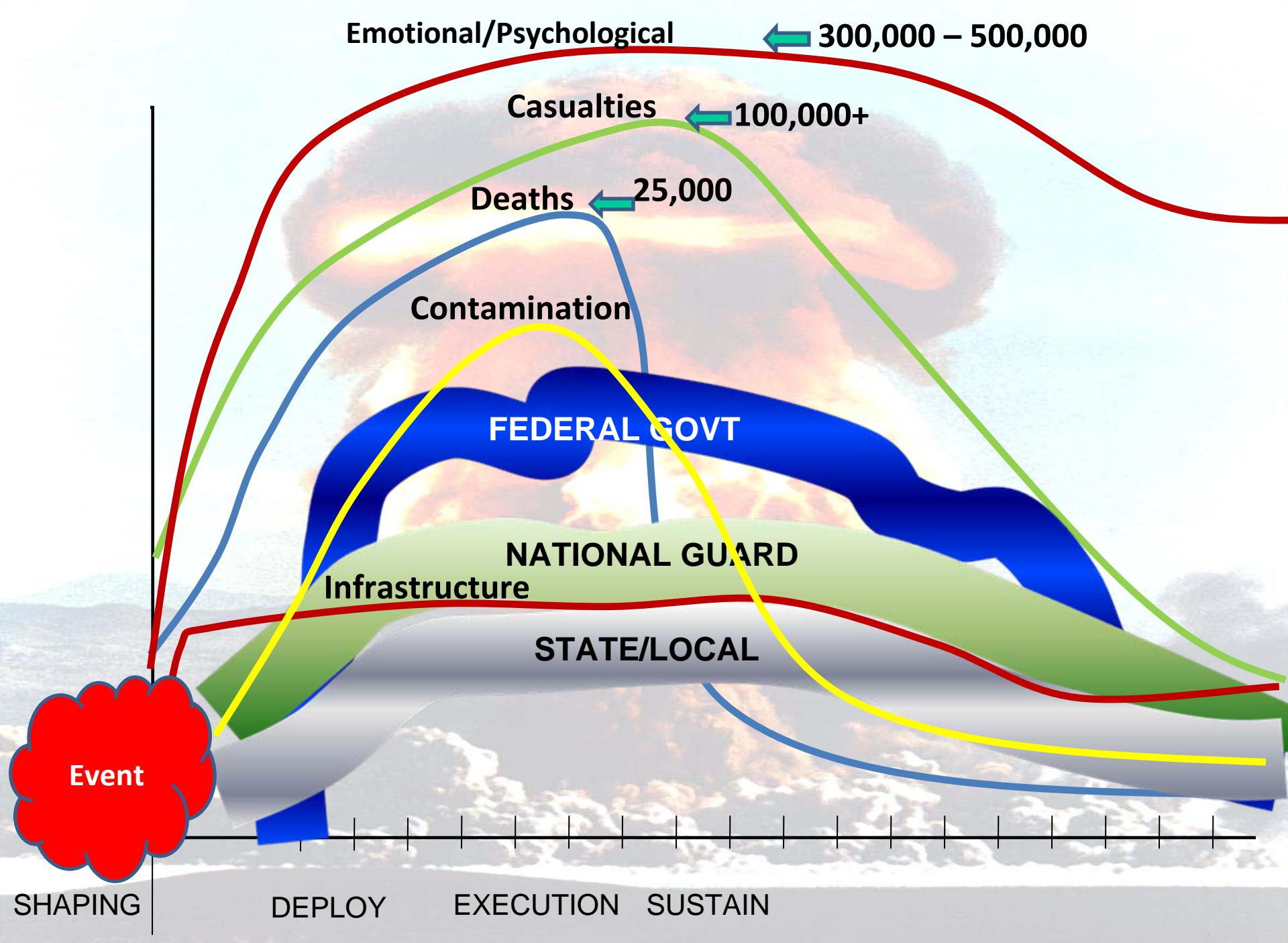




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JTF-CS Structure







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Area of Responsibility

JTF-CS provides CBRNE planning, exercise, and response support within the U.S., its territories, and possessions

USPACOM

Hawaii

Guam

American Samoa

Commonwealth of
Northern
Mariana Islands

Federated States of
Micronesia, Marshall
Islands, and Palau

USNORTHCOM

CONUS and Alaska

Puerto Rico

US Virgin
Islands



- Big Country
- Lots of POC's
- Diverse/Varied



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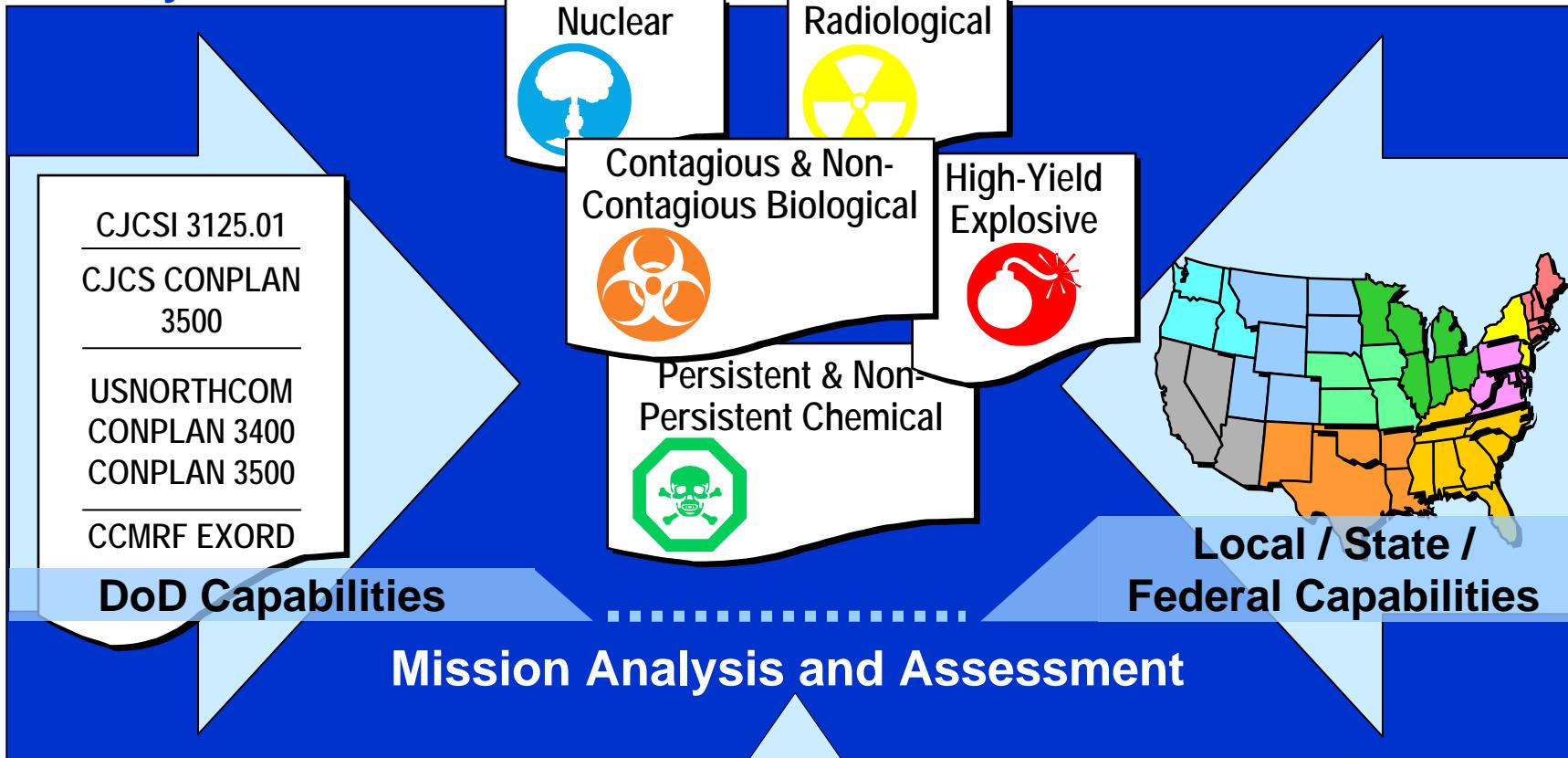
Deliberate Planning - Preparedness

CBRNE CM Guidance,
Policy and Plans

Contingency Planning and
Playbooks

National Response
Framework

Local and State Emergency
Plans



Area Assessment and GIS
Display and Analysis

Emergency Plans



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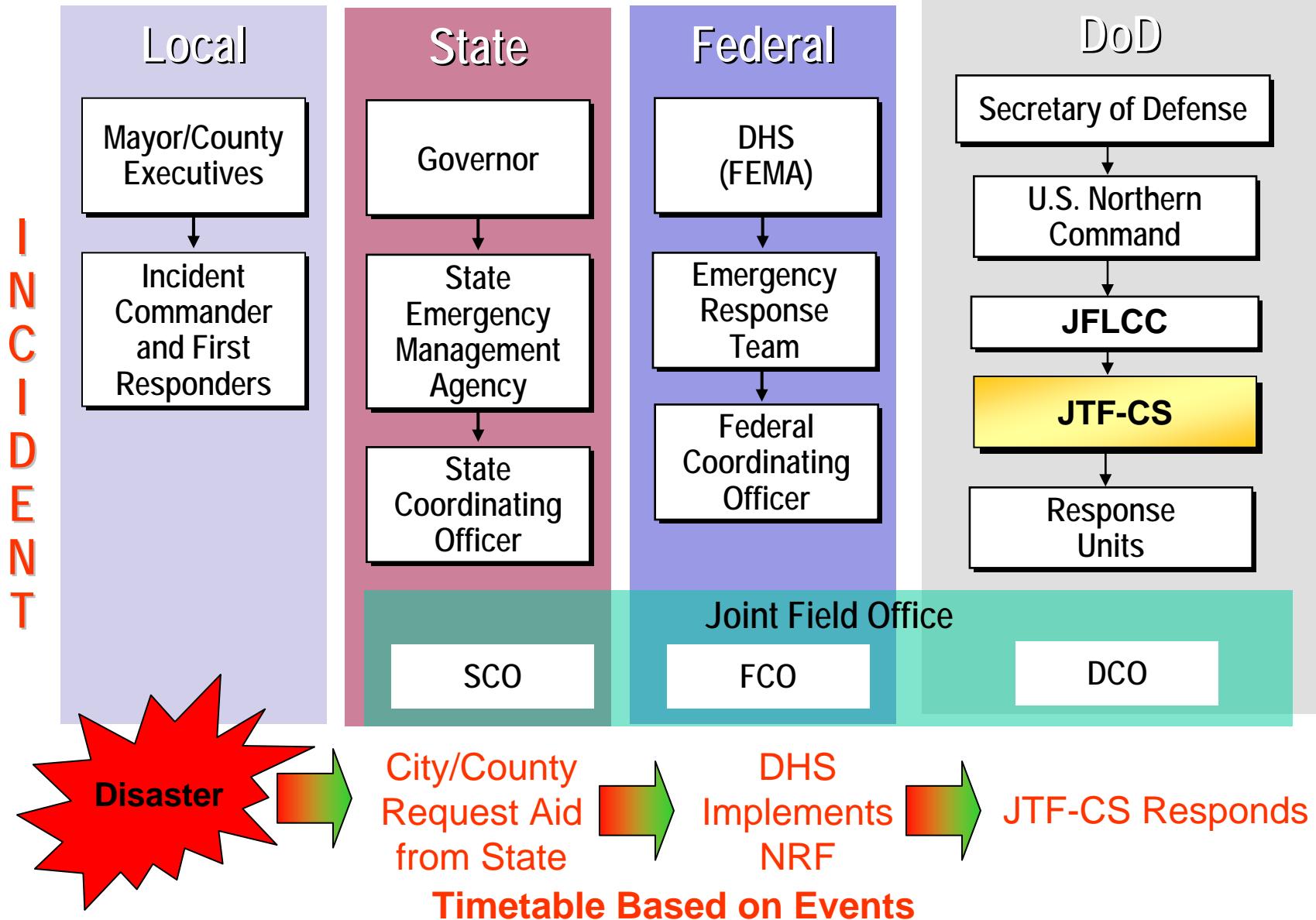
“...find the right way to put together capabilities of the federal government in support of the capabilities of the state...”

**General Victor E. Renuart Jr.
Commander
NORAD & USNORTHCOM**





National Incident Management

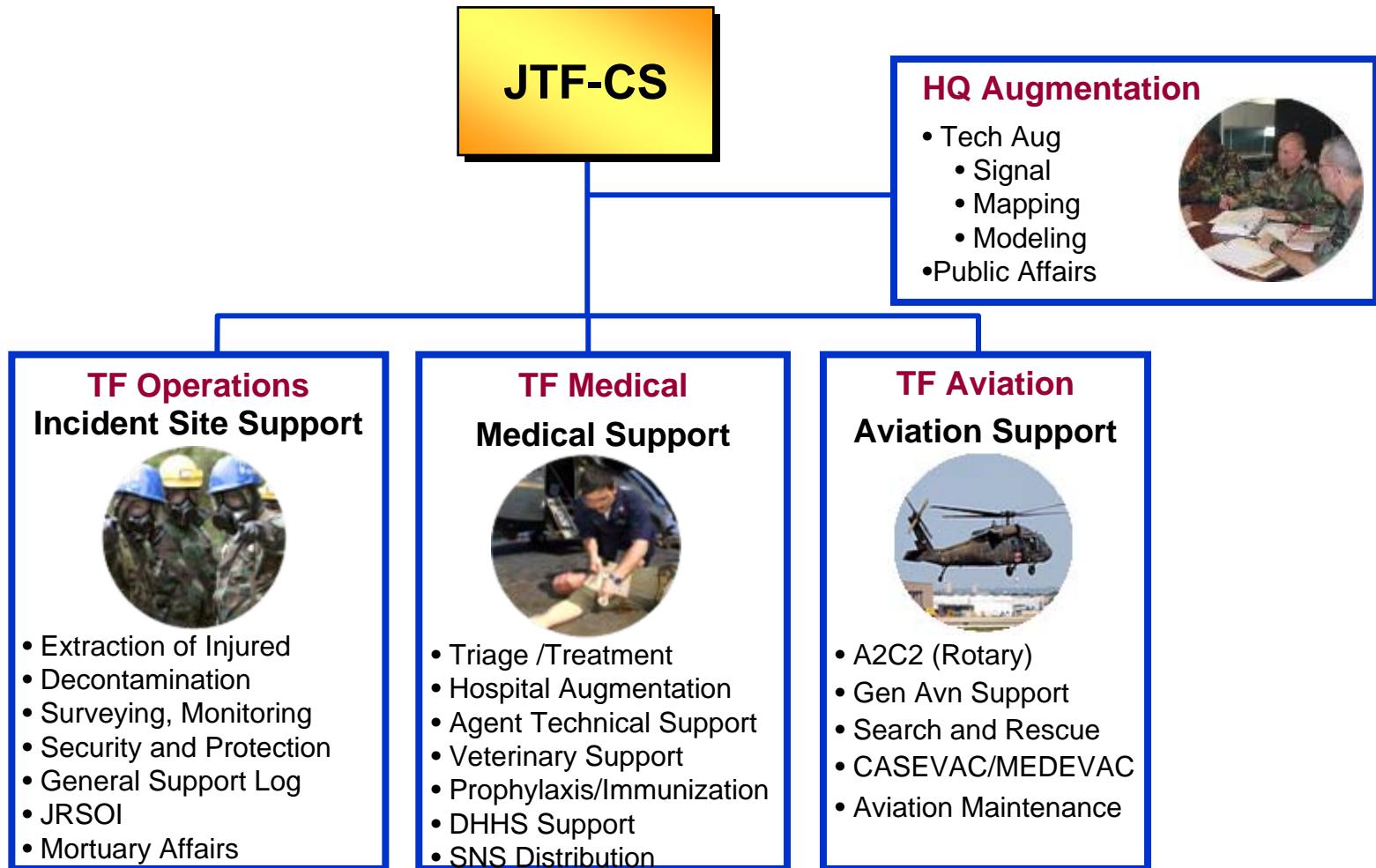




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CBRNE CM Response Force (CCMRF)

JTF-CS provides command and control, and coordination for the following types of tasks and requirements





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“...look for ways to continue to partner to make the job of the states easier when it comes time to respond within their state...”

**General Victor E. Renuart Jr.
Commander
NORAD & USNORTHCOM**





Questions?



M
A
N
S
C
E
N

Maneuver Support Center & Fort Leonard Wood



"World-Class in All We Do!"

Building Strong Warriors, Leaders, Families & Forces to Defend Our Nation—One Person at a Time



What We Do



***Build Strong Warriors, Leaders,
Families, and Forces;
Using the Comprehensive Approach;
in order to Defend the Nation
through Full Spectrum Operations
in a JIIM Environment
– One Person at a Time***



MG LEONARD WOOD



Doctor of Medicine

Awarded the Medal of Honor

Colonel of the 1st Volunteer Cavalry at San Juan Hill

Governor General Cuba

US Ambassador to Argentina

Author

CSA 1910 - 1914

- Forerunner for ROTC

- Transformed the Army for WWI

CG 89th Infantry Division

Governor General Philippines

An expert, agile, adaptive, full spectrum scholar-Warrior and visionary leader



TRADOC CG Guidance (10 Mar 09)



FOCUS:

- Win the Current Fight
- Preserve the All-Volunteer Force = Predictability

PRIORITIES:

1. Leader Development
 - Training
 - Education
 - Experience
2. Initial Military Training
3. Support ARFORGEN
4. Capabilities Integration

ADDITIONAL GUIDANCE:

Break down “bubbles” and reduce “redundancy” in our processes

Identify impediments -- reduce/eliminate them

Army Force Generation (ARFORGEN) model for “readiness”-- central driver of all we do

Owe Chief of Staff of the Army the best Army possible at 547.4K with resources provided

It's all about delivering results and Commander dialogue – Commander centric organization

Lead up and laterally

Encourage professional reading, e.g.

Post American World, Fareed Zakaria

America Alone, Mark Steyn

Outliers, Malcolm Gladwell

Talent is Never Enough, John Maxwell

We can be our own worst enemy

*“So in the Libyan fable it is told
That once an eagle, stricken with a dart,
Said, when he saw the fashion of the shaft,
‘With our own feathers, not by others’ hands,
Are we now smitten.”*

-Aeschylus Once an Eagle



MANSCEN & FLW Mission, Vision, & Tasks



Mission: The Maneuver Support Center, enabled by a world-class garrison at Fort Leonard Wood, creates Warriors and develops Leaders and capabilities that assure the mobility, freedom of action, and protection of the forces they support.

Vision: World-Class in All We Do!



Priorities

- Build Strong People (Military, Civilian, and Families) – Mind, Body, Spirit, Heart
- Develop Strong, Agile, Adaptive Leaders

- Training
- Education
- Experience

- Train Strong, Expert Warriors
- Support ARFORGEN and Win the Current Fight
- Develop & Integrate Capabilities

ENGAGE!

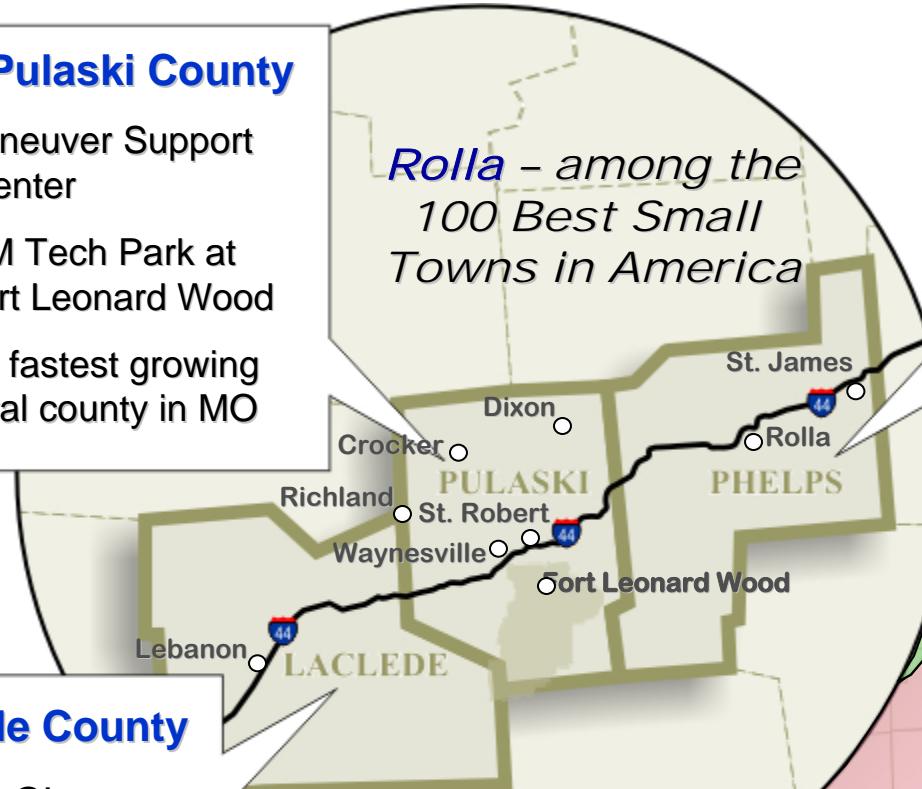


Fort Leonard Wood Region

Pulaski County

- Maneuver Support Center
- UM Tech Park at Fort Leonard Wood
- 3rd fastest growing rural county in MO

Rolla - among the 100 Best Small Towns in America



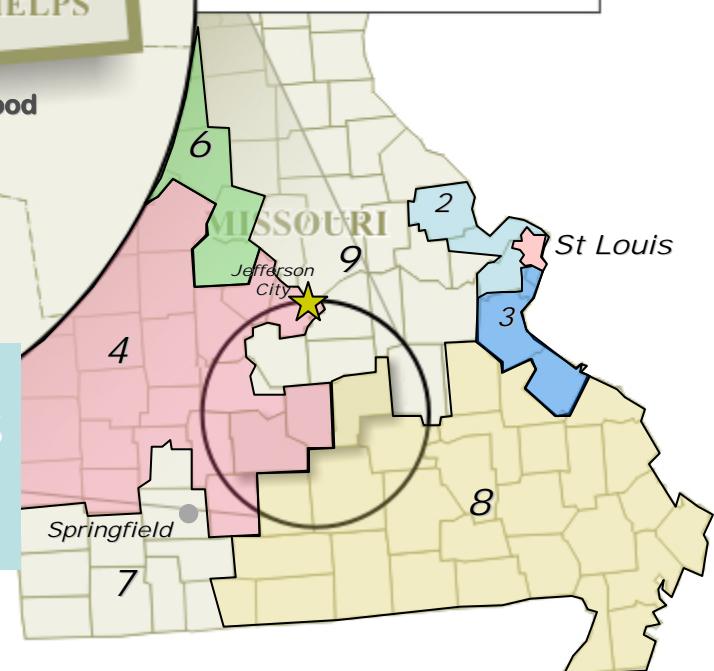
Laclede County

- Industry Cluster – Recreational Watercraft
- Advanced Manufacturing

Lebanon/Rolla – Two of the Top 2.5% of US towns for economic growth

Phelps County

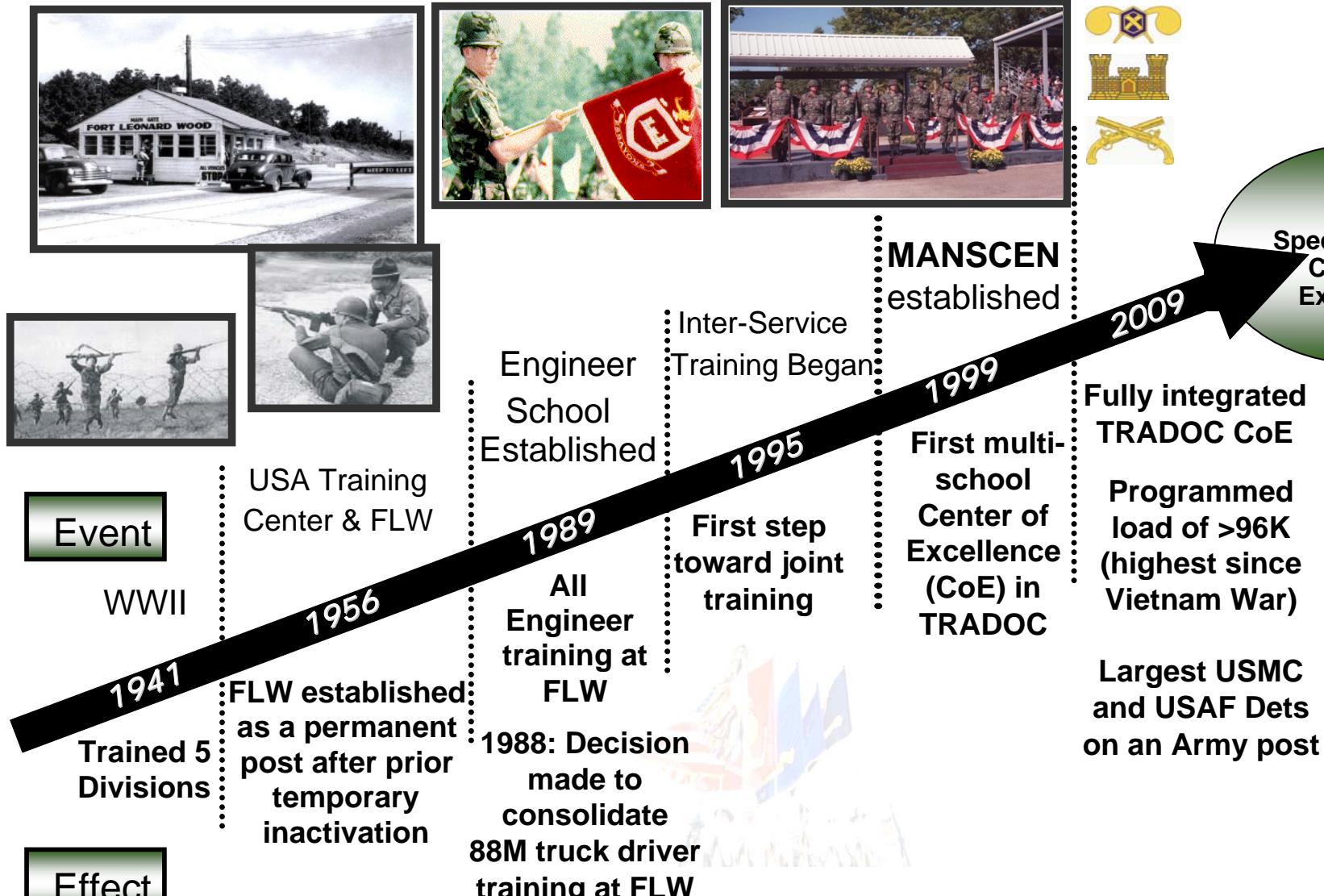
- MO Univ - Science & Technology
- United States Geological Survey (USGS)
- Advanced Manufacturing



Total Population : 122,000 (50mi radius)



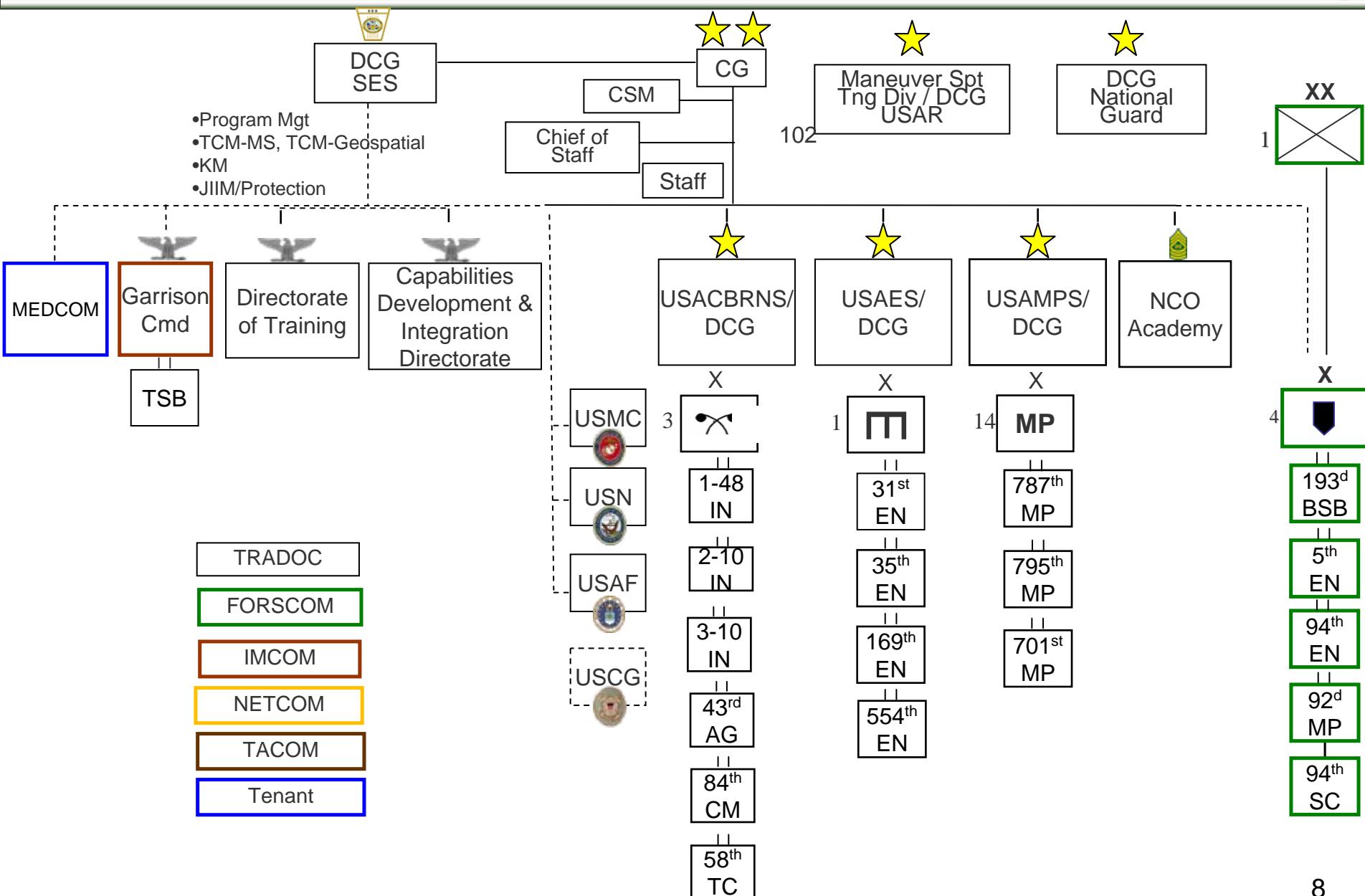
FLW: Past, Present and Future



*Transforming to become a Full Spectrum, Joint, Interagency,
Intergovernmental, Multinational Center of Excellence*

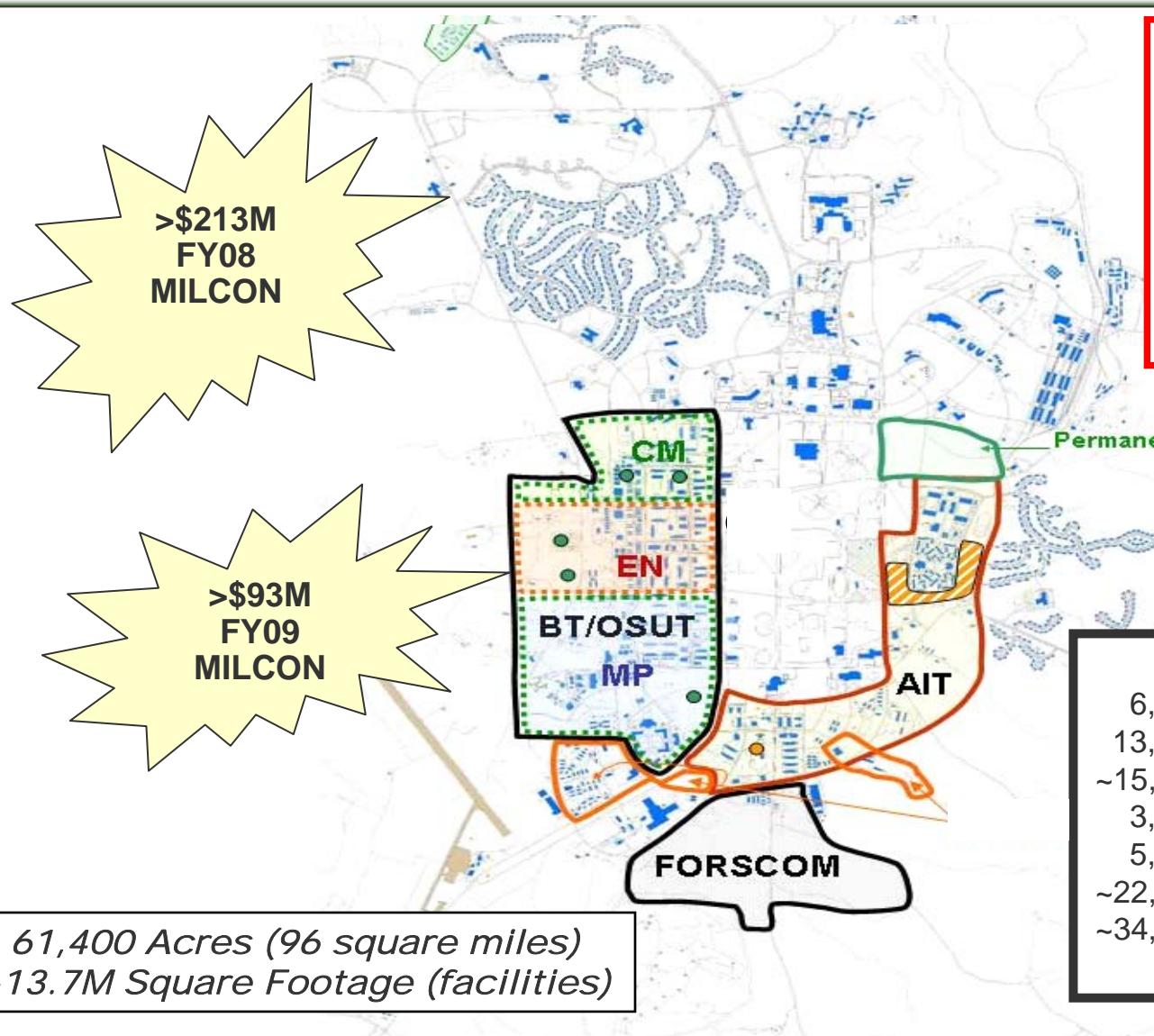


Maneuver Support Center & FLW





The Post & Its Supported Population



We need \$767M to support our growth

- Training barracks
- FORSCOM construction
- Single Soldier housing
- Recreational facilities

Estimated \$2.1B annual economic impact

FLW Supported Population:
6,700 Military Permanent Party
13,700 Servicemembers in Training
~15,900 Active Duty Family Members
3,300 DA Civilians
5,000 Other Civilians
~22,600 Retirees
~34,000 Retirees' Family Members
TOTAL of ~101,200

An Enduring Army Installation



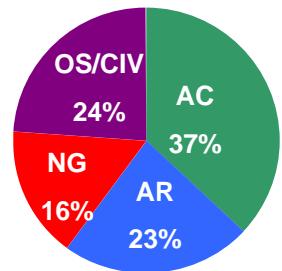
FY09 Training Projections



<u>Course</u>	<u>Programmed</u>
Basic Combat Training	13,500
Advanced Indiv Training	32,617
One Station Unit Training	14,324
Basic Officer Leader Course	1,580
Captains Career Course	1,216
NCO Education System	4,050
Warrant Officer	409
Functional	12,354
Inter-Service	8,137
Additional Skill Identifier	2,081
Other	6,346
Total	96,614



Training Composition



AC: Active Component
AR: Army Reserve
NG: National Guard
OS/CIV: Other Services & Civilians

19 occupational specialties and 66 highly technical, cutting edge functional courses



Training & Education Highlights



Chemical, Biological, Radiological and Nuclear



- CBRN Defense training in a toxic agent environment
 - Army, Joint, Allied students
 - Deployable unit and Homeland Security
 - Only DoD certified location
- Emergency Responder: CBRN response, Weapons of Mass Destruction, Civil Support Teams, HAZMAT certification
- Sensitive Site Assessment/Exploitation

Engineer



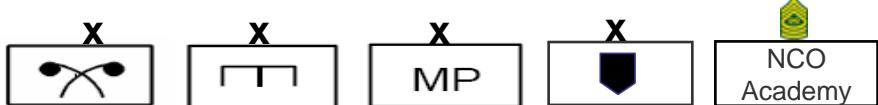
- Counter Explosive Hazard Center:
 - IED-Defeat Train the Trainer
 - Explosive Ordnance Clearance Agent
 - Mine Dog Detachment
 - Search Village
- Joint, Interagency, and Multinational training
- Partnerships with academia

Military Police



- Evasive Driving: Training DoD and Interagency
- Special Reaction Teams, High Risk Personnel Security, Anti-terrorism, Protective Services, CID
- Army Non-lethal capabilities and development EA

Leader Development & Education

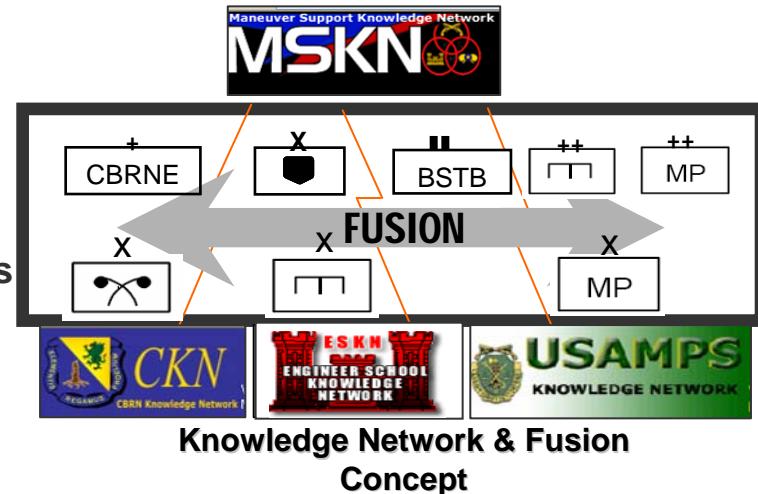


- Developing leaders for these functional & multi-functional brigades- ready for full spectrum ops
- Pre-Command Course (PCC) for Maneuver Enhancement Brigade, Brigade Special Troops Battalion, CM, EN and MP
- Consolidated NCO Academy – largest in Army



Supporting the War

- IED-Defeat rapid transition and capabilities
- Providing Knowledge Management , Fusion, Warfighter Forums → Real-time reach-back and support
- Integrating Lessons Learned across Doctrine, Organization, Training, Materiel, Leadership & Education, Personnel, Facilities (DOTMLPF) → Leveraging our on-site FORSCOM units for observations and lessons learned
- Supported functional brigades with 269 Mobile Training Teams
- Supporting Maneuver Enhancement Brigade staffs with exercises and support to Battle Command Training Program
- Providing pre-deployment and post-deployment (reset) support to our resident FORSCOM units



Critical Capabilities for the Current Fight



Transform: Capabilities Development

MANSCEN Top Ten Capabilities Development Priorities

1. Explosive/Toxic Hazard and Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Defeat
Including the following:
 - *Improvised Explosives Device Defeat (IED-D)*
 - *Elimination of Weapons of Mass Destruction*
2. Maneuver Support Concepts, Organizations and Systems
Including the following:
 - *Military Working Dogs*,
 - *Maneuver Enhancement Brigades (MEB)*
 - *Brigade Special Troops Battalions (BSTB)*
 - *CBRNE Operational Headquarters – 20th Support Command (CBRNE)*
3. *Protection*
4. *Consequence Management*
5. Stability Operations, Infrastructure Development and Nation Assistance (including Base Camps)
6. Detainee Operations
7. *Non-Lethal Capabilities*
8. Joint Functional Capabilities (JFC)
9. Geospatial
10. Future Mobility and Support Systems (including *Future Combat Systems Unmanned Ground Vehicles*)

*Lead for the Army or Training & Doctrine Command

Mission critical capabilities & prioritized efforts to support the current and future fight



Taking Care of Our People

- Warrior Transition Unit (~ 160 Wounded Warriors)
- Renovating and Building new Trainee Barracks
- Building New “Townhouse” Single Soldier “Homes”
- Increased attention to Residential Communities Initiative
- Continuous Improvement in MWR and QoL Programs
- Customer Management Service (Leader, Family, Servicemember, Civilian, Retiree views on Importance/Performance)
- General Leonard Wood Army Community Hospital “Access to Care” initiative
- Truman Education Center (6th largest degree granting program in state)
- Increased focus on recruiting talented personnel for MANSCEN & FLW positions
- Robust Army Family and Community Covenant Program
 - Most Community Covenants in the Army (5)
- Award Winning AUSA Chapter

People are our Centerpiece



Engaging Our Community

Supporting & Sustaining our All Volunteer Force Through Outreach

- Engaging local high schools and colleges
- Graduation ceremonies with Families
- Supporting all Total Army Involvement and Recruiting missions
- Educator Recruiting visits
- ~200 weekly interactions with Families through our web page
- Every FLW person is an “ambassador” for our story

Comprehensive Approach: Coordinating, Collaborating, & Cooperating

- Whole of government approach
- Whole of FLW approach
- Regularly engaging with Congressional leaders
- Quarterly visits with Joint, Other Service and Army staff
- Partnering with academia (e.g., Mizzou, MIT, Fletcher), think tanks (e.g., RAND), , and other institutions (e.g., NPS, DLI) to increase our capabilities
- Numerous Community Events/Support

Effects-Based Information Engagement

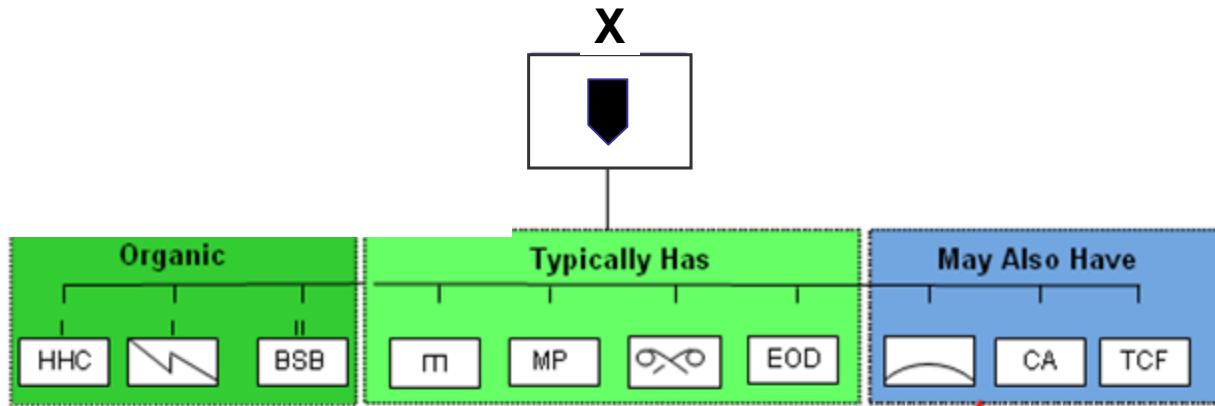
- Energized our STRATCOM cell to tell our story more effectively
- St. Louis Post Dispatch “Reporting for Duty Series”
- PBS, Military Channel, and History Channel coverage
- Award winning post newspaper

We engage our global community to tell our story and gain support



Maneuver Enhancement Brigade

MEB Mission: To conduct maneuver support operations, support area operations, consequence management operations, and stability operations for the supported force



14 MEBs in the force today
(2/10/2 Active/NG/Reserve)

23 MEBs in the force by FY13
(4/16/3 Active/NG/Reserve)

One of the five modular support brigades

A unique multi-functional unit to support Maneuver & Joint Forces commanders



Inter-Service and JIIM Training



- **Significant Inter-Service presence**

Average daily Inter-Service population:

- Perm Party: 490 (70/100/320, USN/USAF/USMC)
- Students: 1,700 (250/350/1100, USN/USAF/ USMC)



- **Majority of Inter-Service courses have common standards** established through Inter-Service Training Review Organization (ITRO) agreements (AR 351-9)

- **2 Joint Courses:**

- JCBRN Senior Leader Course
- Joint Engineer Operations Course

- **Training Interagency and Intergovernmental Personnel in Functional and Leader Courses**

- **International Student Detachment**

- **Increased Multinational training**



Vision: Increase opportunities and capacity for Inter-Service and JIIM Training



"Where the Puck Is Going "



- **Taking People and Turning Them Into Better People for the Army, Nation, and World**
 - Mind – Body – Heart– Spirit
 - Comprehensive Soldier Fitness
- And when they take off the uniforms --
Veterans... Leaders for a Lifetime!
-
- **An Adaptive Institution, Fueling Change for Our Army & its Leaders Using 3 Mechanisms:**
 - **Developing Agile and Adaptive Leaders:**
 - **Teaching Leaders How to Think vs What to Think**
 - **Improving Interagency Programs**
 - **Forging a Comprehensive Approach to Operations:**
 - **“Whole of Government” /“Whole of MANSCEN/FLW” approach**
 - **Focus on Coordination, Collaboration, and Cooperation (3Cs)**
 - **Fostering a Culture of Engagement:**
 - **Competent, Confident Creative Communicators**
 - **Focus on Strategic Communication and Information Engagement**
 - **Partnerships with and outreach to Congress, academia, business, and think tanks**

Building Strong Warriors, Leaders, Families and Forces; Using the Comprehensive Approach; in order to Defend the Nation through Full Spectrum Operations in a JIIM Environment – One Person at a Time

M
A
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Maneuver Support Center & Fort Leonard Wood



"World-Class in All We Do!"

Building Strong Warriors, Leaders, Families & Forces to Defend Our Nation—One Person at a Time



DoD Strategic Counter Weapons of Mass Destruction (CWMD) Priorities

POLICY



**Mr. Timothy X. Morgan
Chief of Staff
Global Security Affairs**

**JCBRN Conference
June 24, 2009**

**Cleared For Open Publication
June 18, 2009
09-S-2230**



UNCLASSIFIED

WMD Security Challenge

POLICY



“In a strange turn of history, the threat of global nuclear war has gone down, but the risk of a nuclear attack has gone up.”

-President Obama
April 2009



UNCLASSIFIED

DoD's Four Strategic CWMD Priorities

POLICY

- Increase barriers to WMD proliferation and use
- Improve ability to identify and mitigate emergent WMD threats
- Develop layered, integrated WMD defense
- Manage WMD threats emanating from failing, fragile states/ungoverned territories



UNCLASSIFIED

DoD Strategic Priorities in CWMD

POLICY

□ Increase barriers to WMD proliferation and use

- Establish climate unfriendly to WMD (non-proliferation treaties, agreements, and professional codes of conduct)
- Reduce availability of weapons, materials, and delivery systems
- Inhibit/reduce/reverse proliferation where it occurs; break proliferation networks
- Detect and intercept the movement of WMD, missiles, and related materials



UNCLASSIFIED

DoD Strategic Priorities in CWMD (cont'd)

POLICY

- Improve ability to identify and mitigate emergent WMD threats**
 - Detect, strike, and counter emerging threats
 - Deter escalation and use
 - Defeat emerging WMD threats



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DoD Strategic Priorities in CWMD (cont'd)

POLICY

Developed layered, integrated WMD defense

- Deny adversaries the benefits they seek through threatened possession and use of WMD
- Prepare the homeland to defend against, respond to biological, chemical, or nuclear attacks
- Detect and intercept threats before they reach the homeland
- Respond and mitigate the effects of WMD attacks



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DoD Strategic Priorities in CWMD (cont'd)

POLICY

Manage WMD threats emanating from failing, fragile states/ungoverned territories

- Prevent establishment of WMD-safe havens in ungoverned areas
- Ensure WMD and materials are under responsible control
- Prevent loss or transfer of WMD and materials
- Respond to instability and/or loss of control in a WMD-armed state



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Global WMD Contingencies

POLICY

- WMD crises can easily become large scale, complex, global WMD contingencies**
 - Large scale domestic attack with WMD
 - Collapse of a WMD-armed state – loss, transfer of WMD
 - Multiple, simultaneous terrorist attacks using chemical, biological, nuclear weapons
- WMD use or loss of control will quickly involve a global response. It will:**
 - Require whole government solutions involving NGOs, corporations, etc
 - Require global and regional planning for DoD – emphasizing response options for attacks that defy conventional retaliatory options
 - Demand synchronization across AORs, within the DoD and within the interagency
 - Require sophisticated, regularly exercised capabilities in every phase of operational planning
 - Demand more military and domestic specialized response capabilities than currently exist – result in multiple geographic and mission demands on the same units
 - Require the USG to more effectively harness the resources of the private sector



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Way Ahead

POLICY

- Addressing CWMD in DoD Quadrennial Defense Review**
- Developing plans to implement Presidential and DoD priorities**
- Engaging interagency and international community**



Joint Capabilities to Combat Weapons of Mass Destruction

Joint CBRN Defense Conference & Exhibit

Fort Leonard Wood, Missouri

June 25th, 2009



Presented by:

Ms. Dee Dodson Morris

Chief of Staff, Joint Requirements Office for CBRN Defense

Directorate for Force Structure, Resources and Assessment (J-8), The Joint Staff

dee.d.morris@js.pentagon.mil

- JRO's Role, Organization and Responsibilities
- CBRND Defense Operational Concept
- CBRND Core Capability Areas
- Modernization Emphasis
- JRO Focus Areas
 - CBRN Monitoring & Survey
 - CBRN Field Analytics
 - WMD Consequence Management
 - Stand Off Detection
 - Developing Joint CbtWMD Leaders

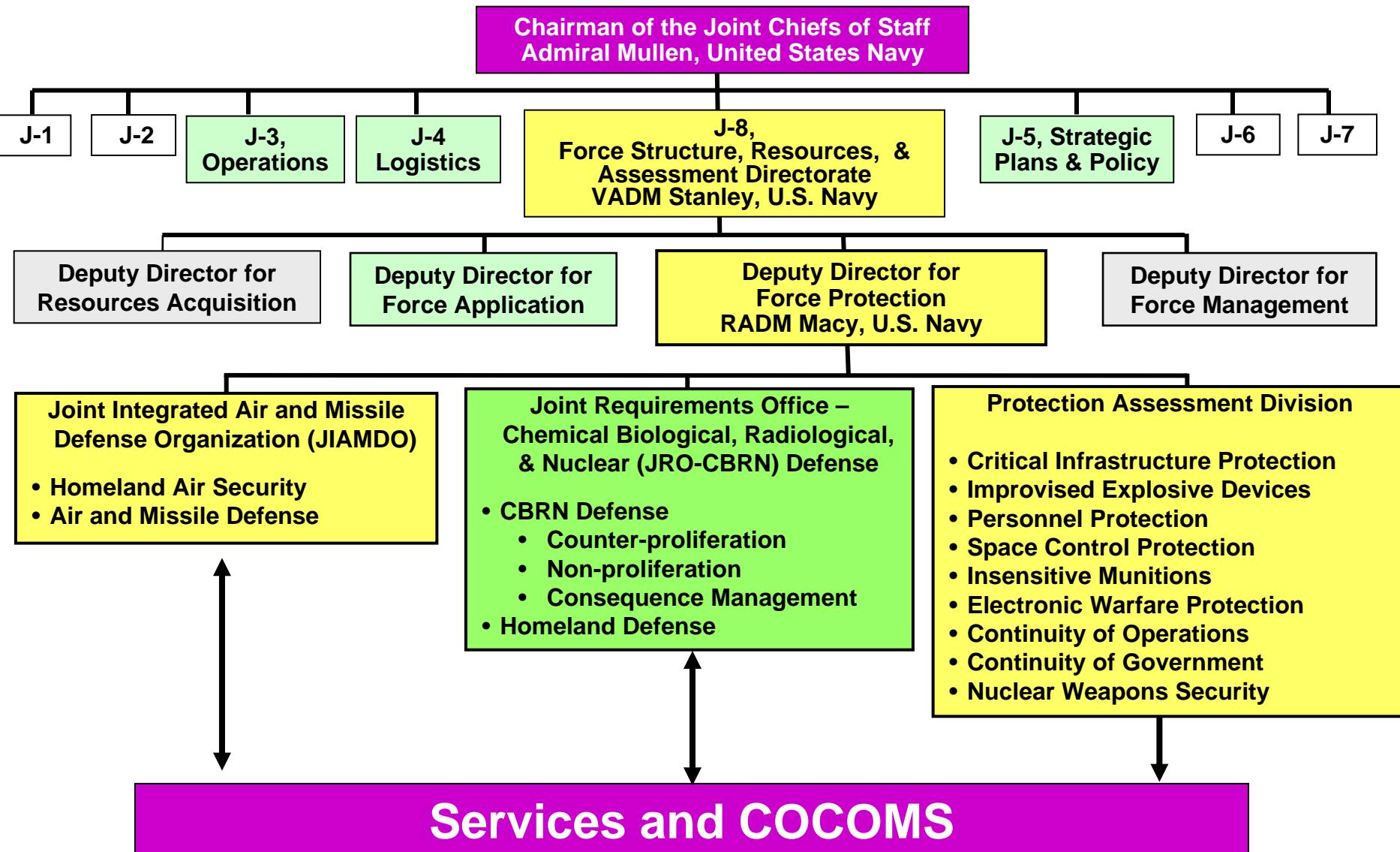
JRO's Role in the CBRD



Single office within DOD responsible for the planning, coordination, and oversight of joint CBRN defense operational requirements

- Lead joint CBRN defense capabilities development
- Develop and maintain the CBRN defense Overarching Operational Concept and the CBRND Modernization Plan
- Represent the Services and Combatant Commanders in JCIDS and act as their proponent for coordinating and integrating CBRND operational capabilities
- Develop DOD CBD POM with acquisition community support
- Facilitate the development of joint doctrine and training and sponsor the development of multi-service doctrine
- Oversee, manage and sponsor concept experimentation

Joint Staff and J8 Organization



Serve as the CJCS' single source of expertise to address all issues involving CBRN defense within passive defense, consequence management, force protection, and homeland security defense and civil support

- Chair and operate Combating WMD Working Group in support of Protection FCB
- Protection Capability Portfolio Management - Combating WMD
- WMD Consequence Management
- Nuclear Defense/Stand Off Nuclear Detection
- Coordinate Joint Combat Capabilities Assessment actions related to CWMD/CBRND (i.e. IPLs, GWOT LL, 7500)
- Joint Staff focal point for CBRN Survivability
- Joint Staff principal to BioDefense Policy Coordinating Committee, Homeland Security Council
- International Programs Support – NATO; bilateral policy exchanges (South Korea, UK, Japan); Australia, Canada, UK & US Memorandum of Agreement for CBRN defense

JRO – CBRND Roles and Responsibilities

Concepts, Studies/Analysis

- Develop Operational Concepts
- Conduct CBAs
- Participate in experiments, demos and Joint Concept Technology Demos
- Oversee Joint Combat Developer for Experimentation
- Develop / manage studies
- Advocacy for Science & Tech/Modeling & Sim
- Coordinate Threat Capability Assessments
- Develop Analytic Agenda

Mission Area Integration

- Develop Modernization Plan
- Coordinate CbtWMD WG
- Support Protection FCB
- Incorporate CWMD/CBRND Aspects for CPR and CPA
- Joint Capability Area coord
- Protection CPM for CWMD/ CBRND
- Lead POM development
- Coordinate all Joint Staff/J-8 CWMD efforts
- Conduct Program Reviews and Readiness Reviews
- Coordinate liaison support
- Support International Efforts

Capabilities Integration

- Identify/develop CBRND materiel capabilities (JCIDS)
- Manage Joint Capabilities Integration Development System documents
- Identify/develop CBRND Passive Defense non-material capabilities
- Provide warfighter advocacy to PMs, T&E, and Science & Tech organizations
- Coordinate Passive Defense doctrine and training issues
- Participate in Multi-national agreements with NATO and CANUKUS

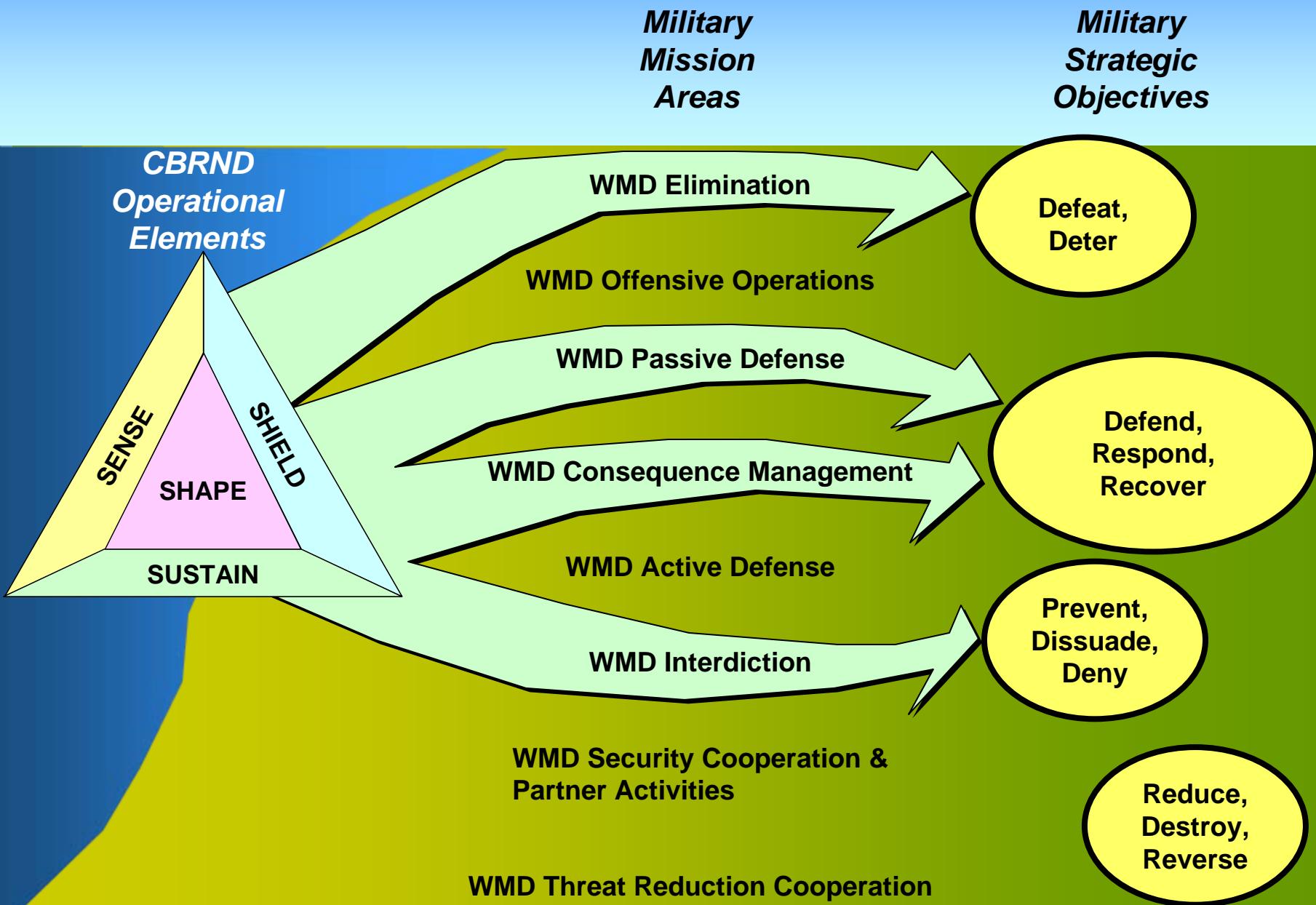
Consequence Management

- Manage *non-current ops* aspects of consequence mgmt (DSCA & foreign)
- Identify/develop CM, HD, and installation Protection material capabilities gaps (through CSA/other CBAs)
- Advocate CM//HD/IP material capabilities thru CIB (JCIDS)
- Advocate CM/HD/IP non-material capabilities thru applicable agencies (direct support from FLW)
- Advocate CM/HD/IP POM development through MAI

Medical Integration

- Integrate and advocate for Medical capabilities across CBRND mission areas
- Manage Medical CBRND JCIDS documents ICW CIB
- Coordinate Medical CBRND capabilities with Services, COCOMs, OSD (ASD HA), Joint Staff, advanced tech developers and Medical S&T
- Participate in NATO Medical CBRN WG and BioMed WG; coordinate with AUSCANUKUS Med Requirements Tm
- Advise the Director, Deputy Director and JRO decision maker on Medical CBRND aspects

CBRN Defense Operational Concept



29 CBRND Core Capabilities Areas

Sense

1. Chemical Standoff Detection
2. Biological Standoff Detection
3. Chemical Point Detection
4. Biological Point Detection
6. Radiological Standoff Detection
7. CBRN Reconnaissance
8. Field Analytics
11. Radiological Point Detection
23. Medical Diagnostics

Shield

9. Respiratory and Ocular Protection
10. Biological Prophylaxis
12. Percutaneous Protection
15. Chemical Prophylaxis
17. Fixed Site Collective Protection
21. Expeditionary Collective Protection
22. Radiological Prophylaxis

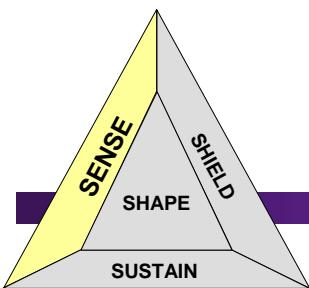
Shape

5. Integrated Early Warning
14. Battle or Operating Environment Management Systems
16. Battle or Operating Environment Management Analysis
25. Methods of Control
26. Medical Surveillance

Sustain

13. Personnel Decontamination
19. Fixed Site Decon and Restoration
18. Equipment Decontamination
20. Biological Therapeutics
24. Chemical Therapeutics
27. Radiological Therapeutics
28. Hazardous Waste Control
29. Remains Disposition

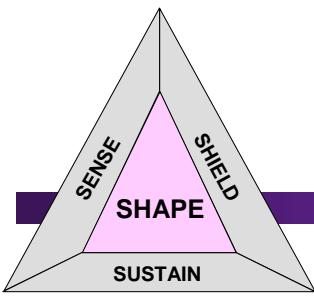
#s Indicate 2008 Joint Priority List



Sense Modernization

- Detection capability for NTA's, TIMs, lowest levels
- Determination of correct detector density and placement
- Reduce size/weight/power needs, reduce false positives while increasing range and sensitivity
- Solutions support sensor suite integration
- Laboratories process large quantities of samples and analyze for CBRN hazards simultaneously

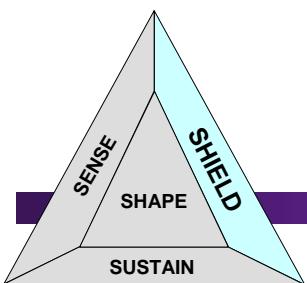
The capability to continuously detect, identify, and quantify CBRN hazards in air, in water, on land, on personnel, and on equipment or facilities. This capability includes doing this in all physical states (solid, liquid, gas).



Shape Modernization

- Expand network connectivity for CBRN-related data flow
- Algorithms which accurately predict and assess hazards that support integrated medical and non-medical analysis
- Automated planning tools/decision aids to assess CBRN hazard affects and impacts directly to personnel, equipment, and terrain
- Medical surveillance providing early biological attack warning interfacing military and civilian systems

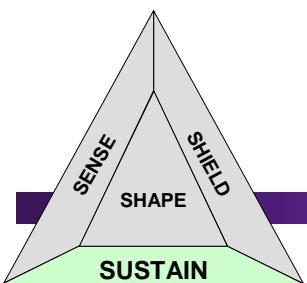
The capability to characterize the CBRN hazard to the force commander. There are four CBRND core capabilities designated for the Shape area, and all DOTMLPF improvements to CBRND Shape can be categorized under one or more of these core capabilities.



Shield Modernization

- Ensuring personnel (including casualties), military working animals, equipment, and facilities are protected against WMD agents, including TIMs and NTAs with minimal or no degradation
- Food and Drug Administration (FDA)-approved medical countermeasures that provide broad-spectrum protection from CBRN agents and have an operationally acceptable incidence of adverse reactions
- Collective protection is integrated in all critical systems that support operating in an unencumbered environment

The capability to protect the force from degradation caused by CBRN hazards by preventing or reducing exposures, applying prophylaxis to prevent or mitigate negative physiological effects, and protecting critical equipment.



Sustain Modernization

- Decontamination products against all CBRN threats with reduced personnel hazards, including better mass casualty decontamination capabilities
- Improved decontaminants with less detection equipment interference that are environmentally safe, and are nonhazardous to sensitive equipment and electronics
- Expanded FDA-approved identification and diagnostic capabilities are fully integrated into command, control, computers, communication, and information intelligence systems

The capability to conduct decontamination and medical actions that enable the quick restoration of combat power, maintain/recover essential functions that are free from the effects of CBRN hazards, and facilitate the return to pre-incident operational capability as soon as possible.

- Enablers that facilitate DOD capabilities
- Joint experimentation is planned that will explore and link joint concepts to non-materiel issues, gaps, and proposed solutions
- JRO's Non-Materiel team of the Capabilities Integration Branch established to facilitate the development of multi-Service and joint doctrine and development and presentation of CWMD/CBRN/WMD CM training and leader development.

WMD Consequence Management Modernization



- These measures may use similar specialists and equipment as passive defense; however, they are intended to mitigate CBRN hazards to unprotected personnel over the long term as opposed to those immediate actions required to maintain operational tempo during a military operation
- Similar to the requirement for homeland defense, interoperable equipment and interagency doctrine/mutual aid agreements must continuously be developed to facilitate support and pre-coordination between DOD assets and lead federal agencies

The capability to protect public health and safety; restore essential government services; and provide emergency relief to governments, businesses, and individuals affected by the consequences of a CBRN or a high-explosive situation.

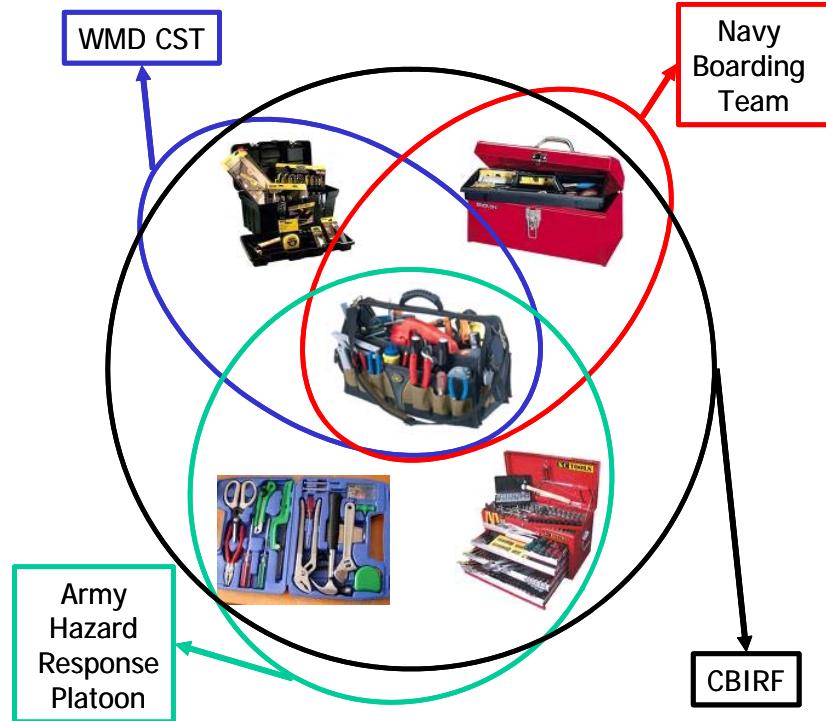
- Global conflict hasn't changed, the difference is WMD proliferation
- Expanding roster of radical fundamentalists makes international cooperation even more important
- Adversaries may employ irregular, catastrophic, disruptive strategies including asymmetric attacks and WMD to challenge US power

Military forces must be prepared to deal with the full spectrum of threats and they must be able to operate in all WMD environments, unconstrained by these effects.

- CBRN Monitoring & Survey
- CBRN Field Analytics
- WMD Consequence Management
- Stand Off Detection
- Developing Joint CbtWMD Leaders



- Common set of components
- Configured into kits
- Supports each Services' mission requiring
 - dismounted CBRN reconnaissance
 - WMD confirmation or denial
 - characterization of a hazardous materiel event or accident
- Acquisition Strategy
 - Commercial-Off-The Shelf (COTS)
 - Government-Off-The Shelf (GOTS), and
 - Non-Developmental Item (NDI)



- Current laboratory variants are not sustainable
- Common analytical capabilities across the CWMD portfolio increases confidence, sampling capability, and supports both Homeland Defense & forward deployed CBRN detection capabilities
- Key capabilities will focus on a modular approach
 - Analytical equipment
 - Analytical processes
 - Personnel staffing
 - Expandable laboratory design

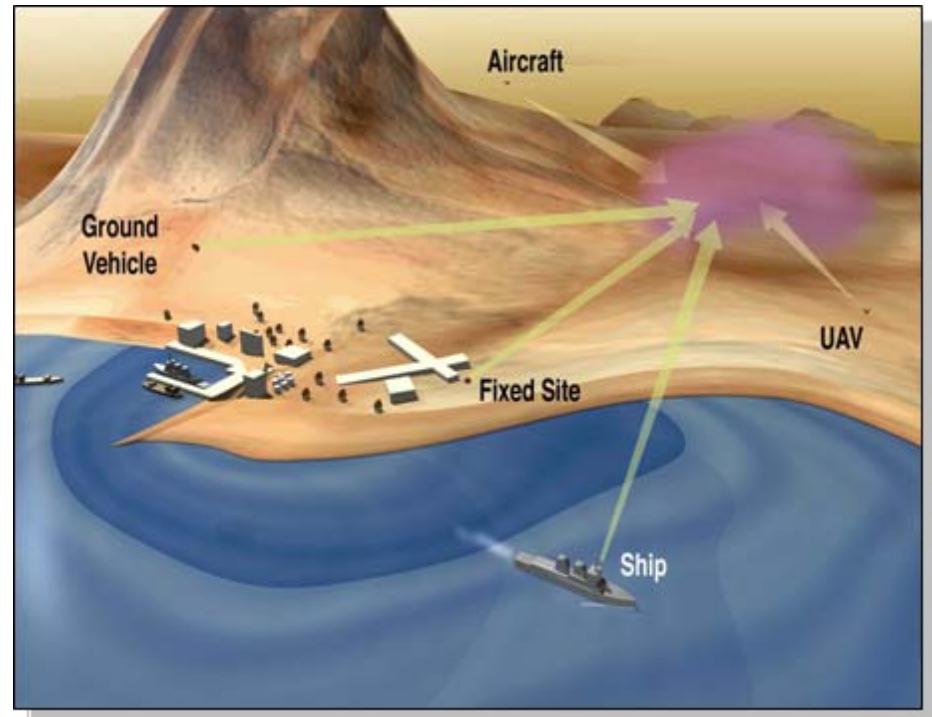


WMD Consequence Management

- Standardize and “institutionalize” CM capabilities
 - detection
 - identification
 - decontamination
 - protection
- Treat WMD CM as a “core” mission
- Complete DOTMLPF approach



- Continued high priority capability for warfighters
- Includes CB and Radiological/nuclear – vapor & liquid/solid
- Heightened interest in “pre-event” detection of SNM
- Technical challenges of distance, shielding, power, platform, etc.



Developing Joint CbtWMD Leaders

- **Problem** - Shortage of senior leaders able to plan and conduct CbtWMD operations in an uncertain environment
- **Approach** – use education, training and exercises as substitute for years of experience and assignments
- Joint Professional Military Education (JPME) curriculum development support
- JPME course and exercise participation (Joint Forces Staff College; USMC Command and Staff College; Joint Flag Officers Warfighting Course)
- National Defense University Center for the Study of WMD – JPME focal point for combating WMD
- COCOM staff training and exercise support – USNORTHCOM and USSTRATCOM



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(703) 571-3090

2009 Joint CBRN Conference
& Expo
June 23-25, 2009
Ft. Leonardwood, MO

CHEMICAL BIOLOGICAL DEFENSE
ACQUISITION INITIATIVES FORUM
(CBDAIF)

CBDAIF Charter

Objectives

- Review, discuss, and recommend initiatives in the area of acquisition excellence.

- Examine industry and government practices that impact the acquisition of goods and services that support the DOD efforts related to chemical and biological defense.

Mission

Develop and encourage the use of innovative procurement and acquisition procedures for supporting and acquiring chemical and biological defense program (CBDP) related goods and services in order to better meet the needs of all stakeholders in the process.

CBDAIF Operation

- Formed from NDIA Corporate Membership consisting of team members representing the various segments of the industrial base

- Permanent members
 - JPEO Chemical Biological Defense
 - Special Assistant to JPEO for External Affairs
 - Director, DTRA JSTO
 - Vice President of Operations, NDIA
 - Director, RDECOM Acquisition Center

Industry Sectors Represented

- Remedial Construction & Non-Stockpile
- Detection
- Operations & Maintenance
- Protective Equipment
- Filter Technology
- Decontamination
- Small Business
- Systems Integration
- Medical/Pharmaceutical
- Surety Laboratories
- Professional Services

Terms and Procedures

- The CBDAIF meets 3-4 times per year.
- Representatives and industry Co-Chair serve for 2 years with approximately half the representatives being rotated each year.
- Sector representatives are company senior executives, but must provide unbiased representation of their sector and not their company.
- Topics of interest are solicited from members, and interested government agencies.
- Subcommittees are formed as necessary to evaluate specific topics.

Recent CBDAIF Discussions

- Backlog in Security Clearance Investigations
- Impact of Proposed Biosurety Regulations
- Ideas for Speeding Up the Contracting Process
- Small and Disadvantaged Business Participation
- Export Approval Processes (Subcommittee)
- Sales to State and Local Governments
- Science and Technology and Research and Development Initiatives
- Procurement Funding Trends

Current Industry Membership

Industry Sector	Representative
Remedial Construction and Non-Stockpile	Larry Sparks, Washington Group
Detection	John Wade, Battelle
Operation and Maintenance	Joe Pecoraro, Parsons
Protective Equipment	Marilyn Ripin, Smiths Detection
Filter Technology	David Yokota, Honeywell
Decontamination	Tim Henry, Bracco Diagnostics
Small Business	Rey Almodovar, IRTC
System Integration	Claudia Randolph, ITT Corp
Medical/Pharmaceutical	Mark Logomasini, SAFC Pharma
Surety Laboratories	David Mangino, CUBRC
Professional Services	Nicole Funk, Booz Allen Hamilton
Co-Chairman	Vince Nardy, Hunter Defense Tech.

Current Government Membership

Government Representative	Affiliation
BG Jess Scarbrough	JPEO CBD
COL Benjamin Hagar	Deputy Director, DTRA
Dr. Darrell Galloway	DTRA, Joint S&T Office, Director CB Tech
Mr. Steven Bryant	RDECOM Acquisition Center
Mr. Dennis Longo	Procurement, RDECOM
Mr. Larry Wakefield	JPEO-CBD, External Affairs
Mr. Douglas Bryce	DPEO for CBD, JPEO CBD
NDIA Representative	
BG Dean Ertwine (Ret)	VP Army Sector, Battelle Eastern S&T
MG Barry Bates (Ret)	VP Operations
Mr. Michael Dauth	Director, Operations

Sector Representation

- Sector Representatives use a list of Sector Companies maintained by NDIA from which to solicit subject matter for the forum and to share feedback.
- Sector Companies are typically surveyed Quarterly for interests, issues and opinions.

Interested in becoming a Sector Company ?

Contact your Sector Representative or
Mike Dauth at NDIA

In Summary

**We encourage broad participation in order
to get Industry input on issues pertaining
to the CB Community.**

Join us!



Department of Defense Chemical Biological Defense Program

Mr. Jean D. Reed

**Deputy Assistant
to the Secretary of Defense
for Chemical and Biological Defense/
Chemical Demilitarization
DATSD (CBD/CD)**

June 25, 2009

<http://www.acq.osd.mil/cp/>



Chemical Biological Defense Program (CBDP) Overview



- Background
- Organization
- Global Security Environment
- Strategic Priorities
- CBDP Funding
- Major Thrust Areas
- Way Ahead
- Measures of Success



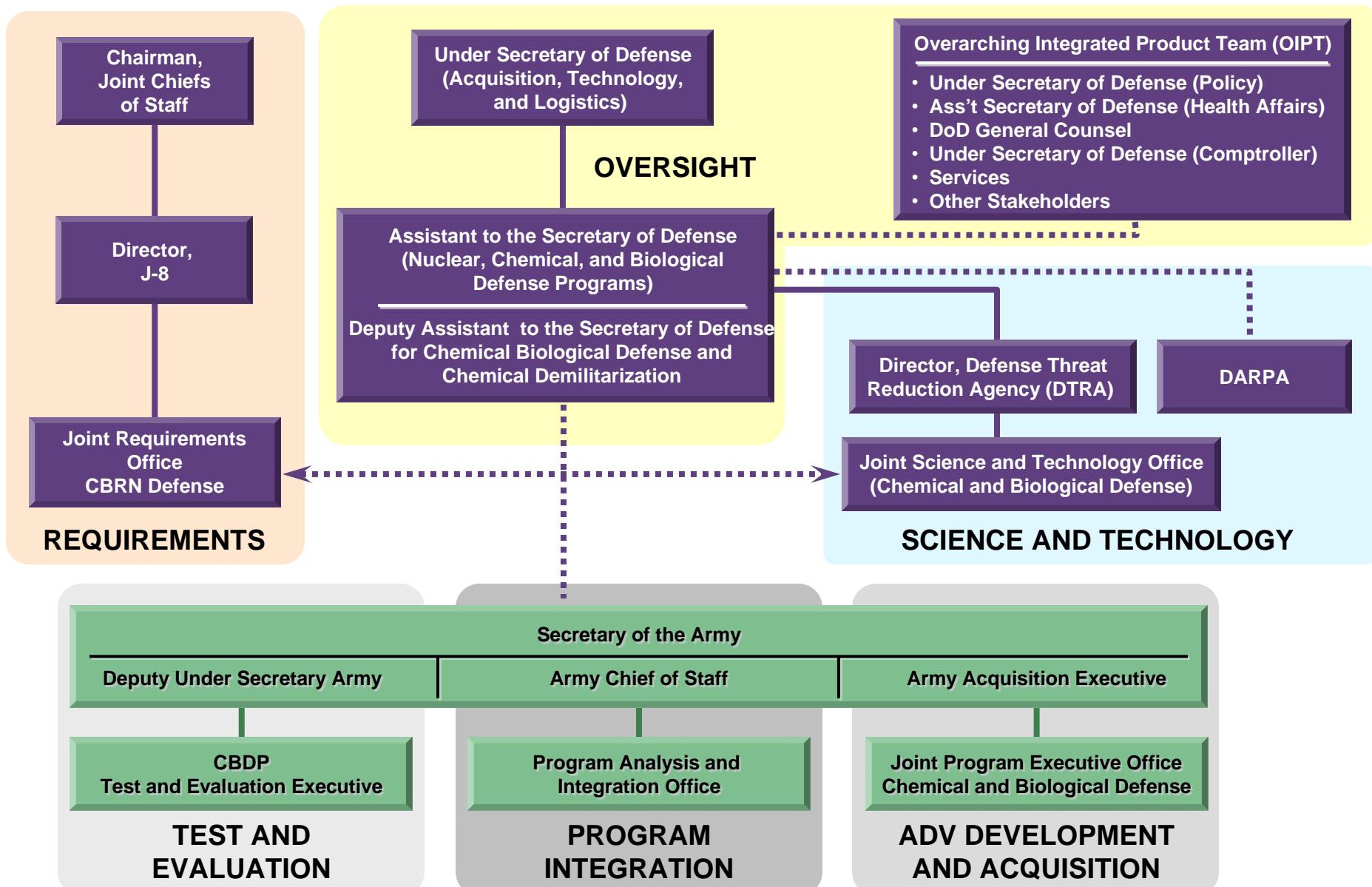
Chemical-Biological Defense Program

- Established by Congress in 1994, Re-organized in 2003
- Consolidated all DoD CB defense efforts into defense-wide funding accounts overseen by a single office - ATSD(NCB) – within the Office of the Secretary of Defense
- **Vision:** to ensure DoD operations are unconstrained by Chemical, Biological, Radiological, and Nuclear (CBRN) effects
- **Mission:** to provide CBRN Defense capabilities in support of the National Military Strategies

Realizing the vision and mission of the CBDP will ensure we sustain our competitive advantage

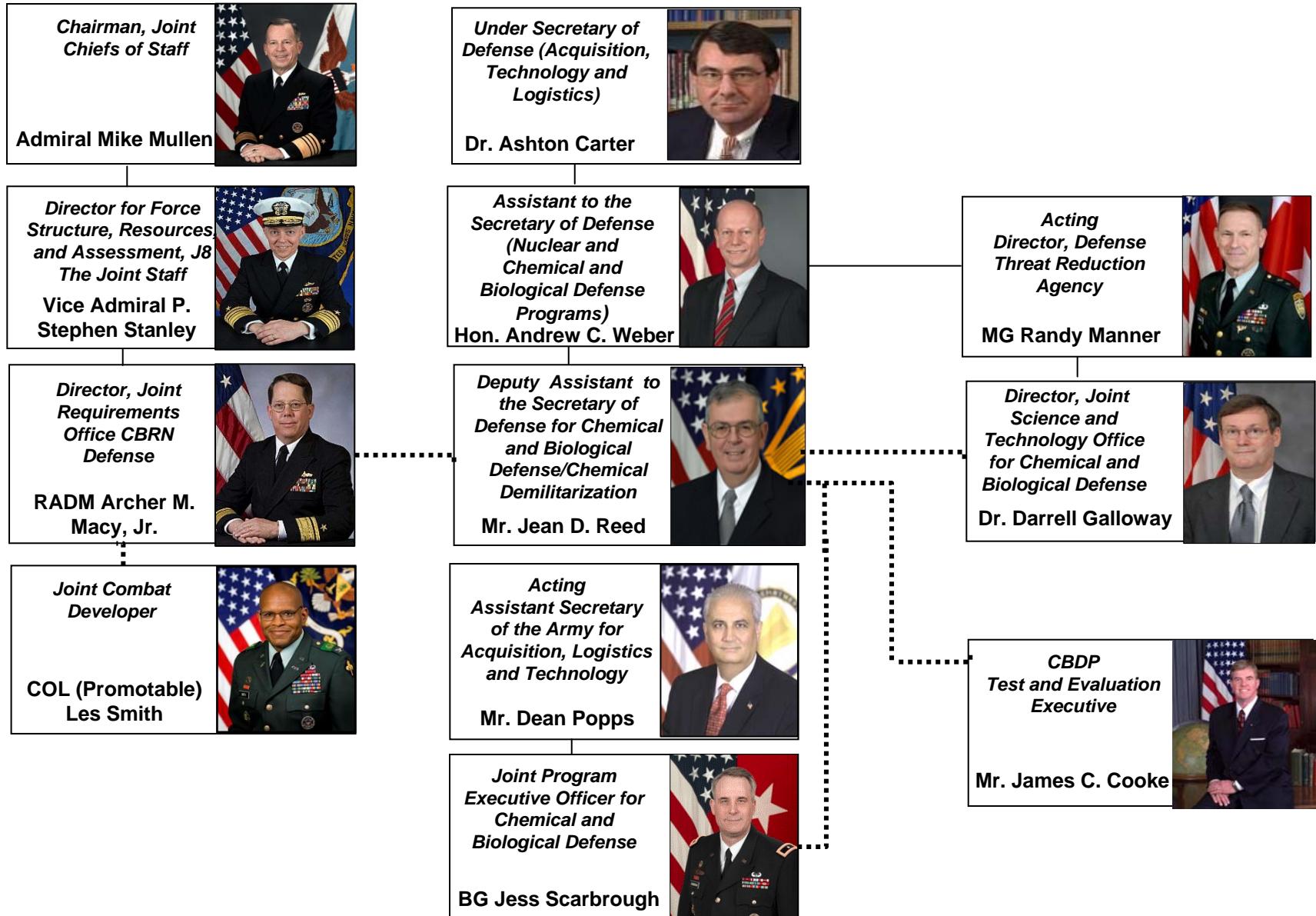


CBDP Organization





CB Defense Program Senior Leadership





DoD Lead for Interagency Chemical and Biological Defense Activities

CBDP Coordinates Continuously With:



Counterproliferation Program Review Committee (CPRC)


Centers for Disease Control (CDC)



National Institute of Allergies and Infectious Diseases (NIAID)



Department of Homeland Security (DHS), S&T Directorate

CBDP Coordination/Cooperation Exists With:



U.S. Department of Agriculture (USDA)



Department of Health and Human Services (DHHS)



Office of Science & Technology Policy



Department of Justice



National Security Council (NSC)



Global Security Environment

Threat

- Pervasive
- All types of conflict
- Every Possible Region
- Asymmetric (seeks WMD)
- Adaptive

Overseas Contingency Operations:
Priority to Maintaining Homeland
Defense and Security

Major Challenges

- Traditional
- Irregular
- Catastrophic
- Disruptive

Multitude of Stakeholders

- Joint
- Interagency
- International

Failure to address this
environment with the right
mix of CBRN capabilities
will increase risk to the Force
and the Homeland



DoD Strategic Priorities in CWMD

- Increase barriers to WMD proliferation and use
- Develop layered integrated WMD defense
- Improve ability to identify and mitigate emergent WMD threats
- Neutralize WMD threats emanating from failing, fragile states

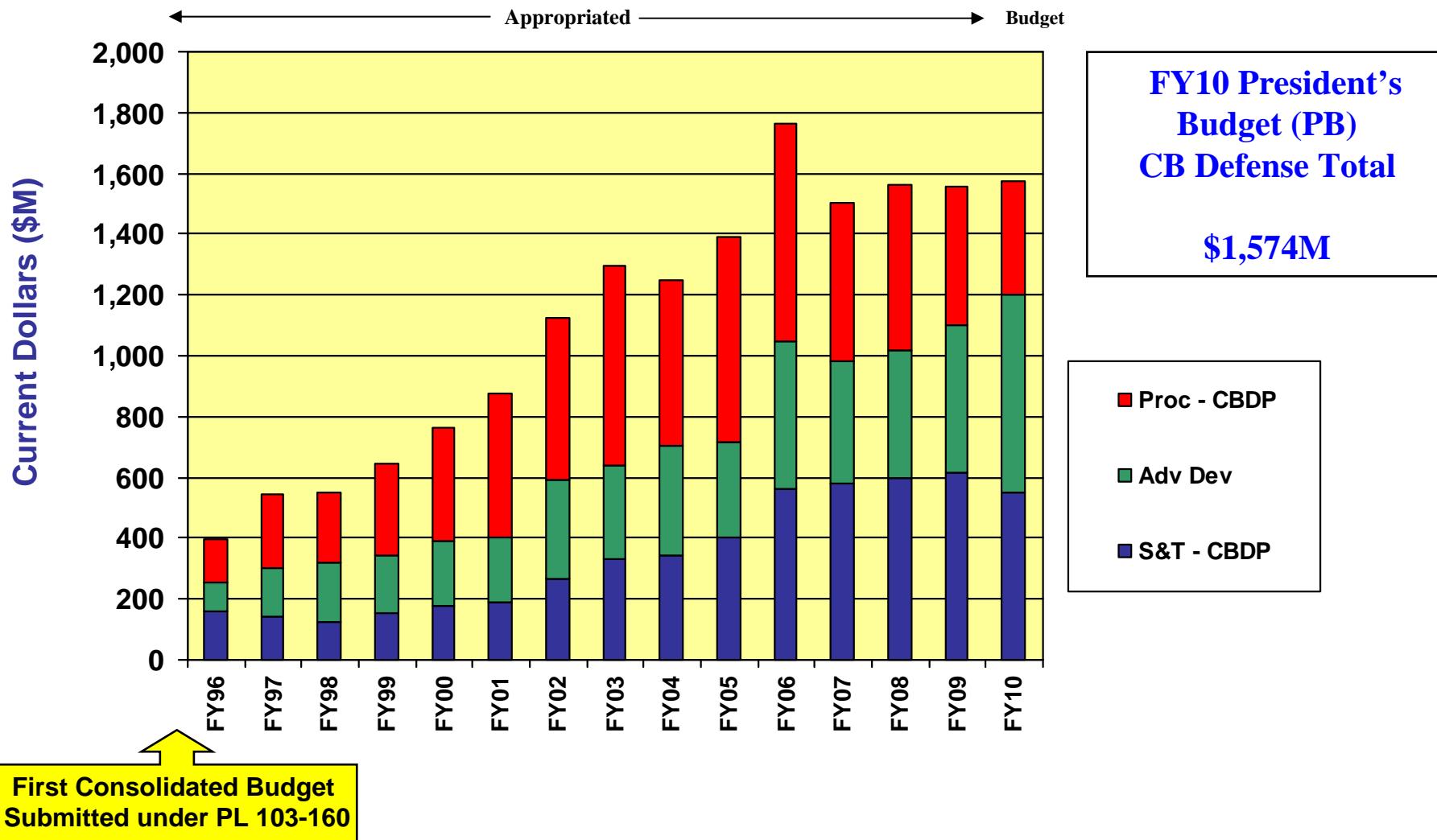


ATSD(NCB)'s Strategic Guidance for the CBDP

- Provide a balanced CBDP to support National Military Strategies and Departmental objectives to improve CBRN Defense readiness and reduce operational risk.
- Build a comprehensive fiscal plan wherein *budgets* flow from programs, *programs* from capability needs, *capability needs* from missions, and *missions* from *national security objectives*.
- Provide operational capabilities to the Joint Force for CBRN defense.
- Define and develop capabilities to increase significantly our ability to dissuade, deter, defend, and defeat.
- Sustain the capability of the Joint Force to respond in any CBRN crisis.
- Improve management practices to fulfill enterprise strategic roles and missions.



CBDP Funding (FY1996-2010)



Trends:

- Total CBDP funding steadily increases from FY96, but begins to stabilize at approximately \$1.6M in FY08.
- In FY06, CBDP RDT&E funding increased significantly as a result of Program Budget Decision (PBD) 753/746.



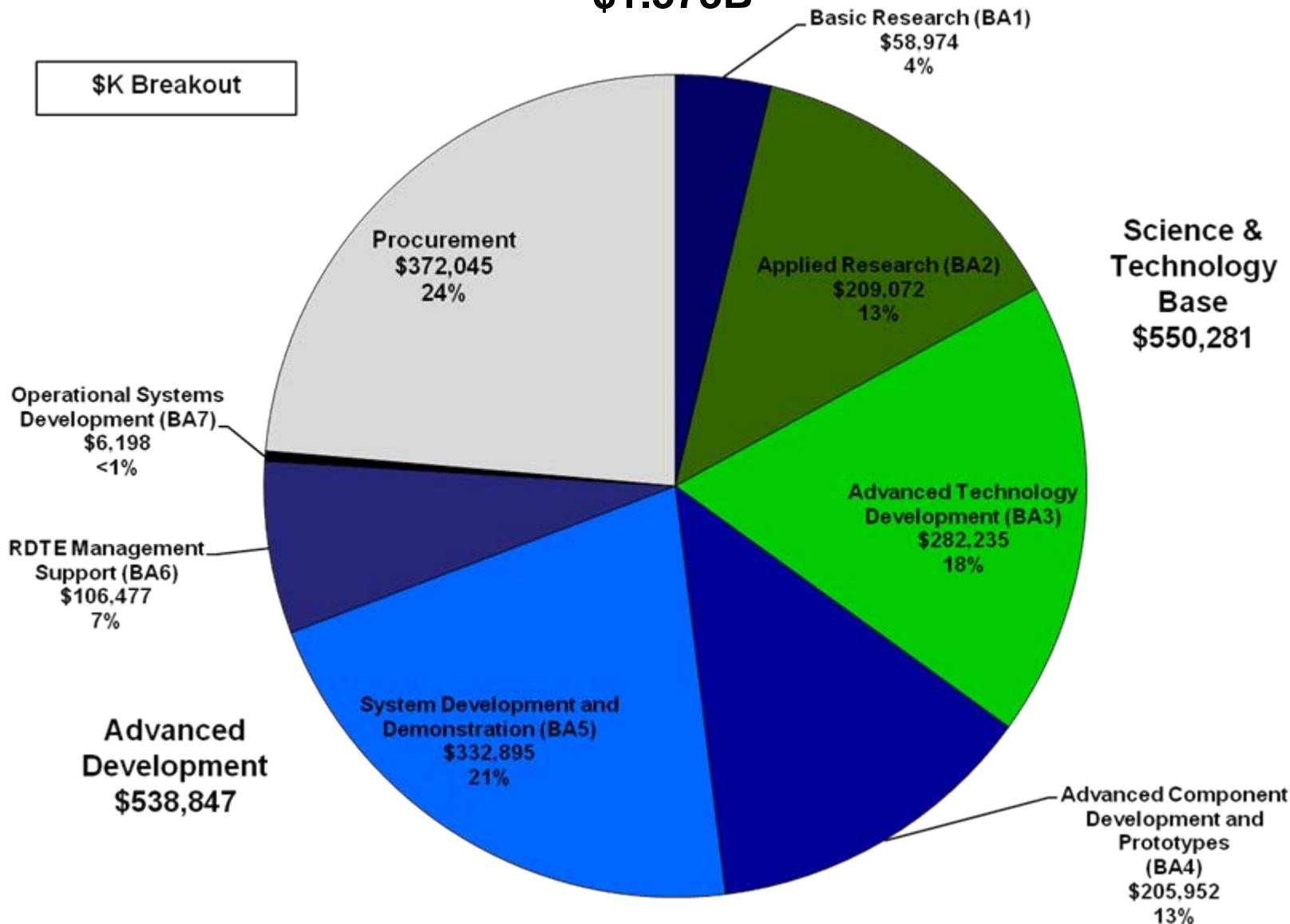
Chemical Biological Defense Program

Based on FY10 PB Request

\$1.573B

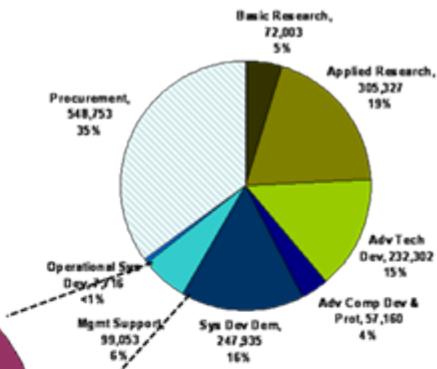
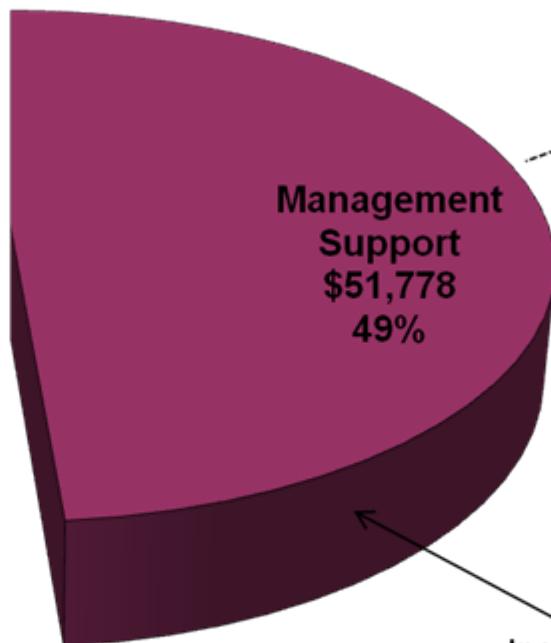
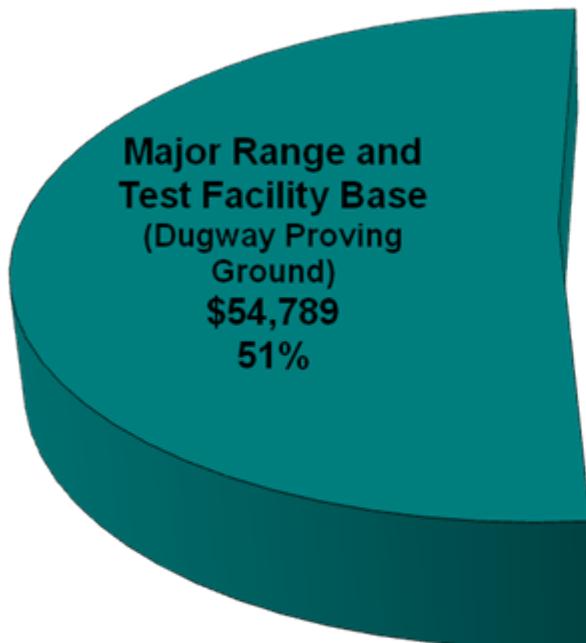


\$K Breakout





FY10 RDT&E Management Support (\$106.4M)



- Includes:
- Joint Requirements
 - Joint Concept Development & Experimentation Program
 - Joint Doctrine & Training Support
 - Information Systems
 - RDT&E Management Support
 - Laboratory Support



CBDP Thrust Areas

- Emerging Chemical Threats
- Emerging Biological Threats
- TMTI
- Consequence Management
- Preparedness
- Training



Chemical

Threat

Traditional Threats

- Traditional chemical warfare threats (nerve, blood, and blister)
- Agents designed for military operations/applications

Enhanced Threats

- Small levels of CBRN hazards, not necessarily weaponized, caused by a terrorist incident that may cause mass casualties.
- Next generation agents

Emerging Threats

- Nontraditional CBRN hazards
- Toxic industrial materials (TIM) hazards
- Toxic Industrial Chemicals (TIC)

Advanced Threats

- Unforeseen CB agent threats
- Asymmetric applications and/or engagements





Biological Threats

Traditional Threats

- Intracellular bacterial pathogens
 - Anthrax
 - Plague
 - Tularemia
- Viral hemorrhagic fevers
 - Ebola
 - Marburg
 - Junin

Emerging Threats

- Natural and emerging diseases:
 - H1N1
 - Cholera
 - Pandemic flu
 - SARS
 - Drug-resistant TB
 - Malaria
- Multi-drug and vaccine resistant pathogens



Threat

Enhanced Threats

- “Bioprospecting” to find particularly virulent strains in nature
- Cultivating particularly virulent strains of pathogens in the laboratory

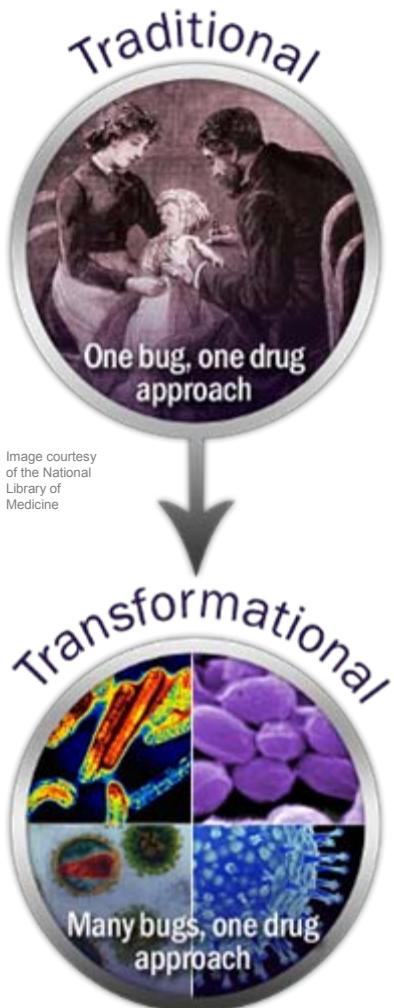
Advanced Threats

- Adding, deleting or mutating genes to engineer pathogens that are more resistant, transmissible and virulent
- Creating viruses *de novo*



Transformational Medical Technologies Initiative (TMTI)

Accomplishments



Images courtesy of the CDC

Provides innovative solutions to the Warfighter by:

- Developing broad-spectrum countermeasures and novel technology platforms (*one drug, many bugs*)
- Pursuing countermeasures targeting common disease pathways or enhance the host's immune system
- Integrating best efforts within government, academia, DoD, biotech industry, and small and large pharmaceutical corporations
- Providing seamless “end-to-end” product development
- Eliminating capability gaps by adding promising candidate technologies to the pipeline
- Using milestone-driven management to select the highest-quality performers with the best value products aligned with the program mission

Bringing Homeland Security & Defense Together

Department of
Homeland
Security

Homeland Security Presidential Directives
National Security Strategy

Department of
Defense (DoD)

National Response Plan



Installation Protection Steering Group
NORTHCOM Force Protection Working Group/J34
Integrated Unit Base Installation Protection (IUBIP) CBA

- National Incident Management System
- All Hazards
- BioWatch
- Grant Programs

- Instructions
- Directives
- Homeland Defense Strategy
- Anti Terrorism/Force Protection Policy
- All Hazards

Civil Community

Military Community

Integration of Policy, Guidance and Capability Solutions

Fielding at 37 Installations in FY2010-FY2011



Domestic CM Response Forces

State Response (Title 32)

Mitigate

National Guard CBRNE Enhanced Response Force Package

CERFP

- ~ 186 Personnel
- Search/Rescue
- Decontamination
- Emergency Medical (17)

Assess

National Guard Civil Support Team

CST

- 22 Personnel
- Identification
- Assessment
- Advisement (55)

Employable first 24-48 hours after incident

Federal Response (Title 10)

Full Response

CBRNE Consequence Management Response Force

CCMRF

CBIRF

- | | |
|---------------------|----------------------|
| • HQ / C2 JTF-CS | • Triage / Treatment |
| • TF Response (IRF) | • TF Logistics |
| • Decon/ Security | • Trans/ Log Support |
| • TF Medical | • TF Aviation (3) |

48+ hours after incident



Consequence Management/Homeland Defense

Fielding improved Analytical and Incident Management capabilities to NGB / CSTs



- Expanded TIC/TIM detection capability
- Broader range of sample matrixes
- Improved communication capabilities including secure video, satellite communications, and secure VTC



Equipping and Fielding 20th Support Command WMD CE, TEU, Nuclear Disablement Teams, and Mobile Laboratories



- Provided 20th with advanced mobile Chemical, Biological, Radiological and Explosive identification capability for short-term and extended missions, supporting DHS and contingency operations



Fielded 81 Chemical / Biological Incident Response trailers to the U.S. Army Reserve Reconnaissance / Decontamination Platoons



- Providing rapid deployability for Army Reserves to support civilian authorities in response to a CBRN event



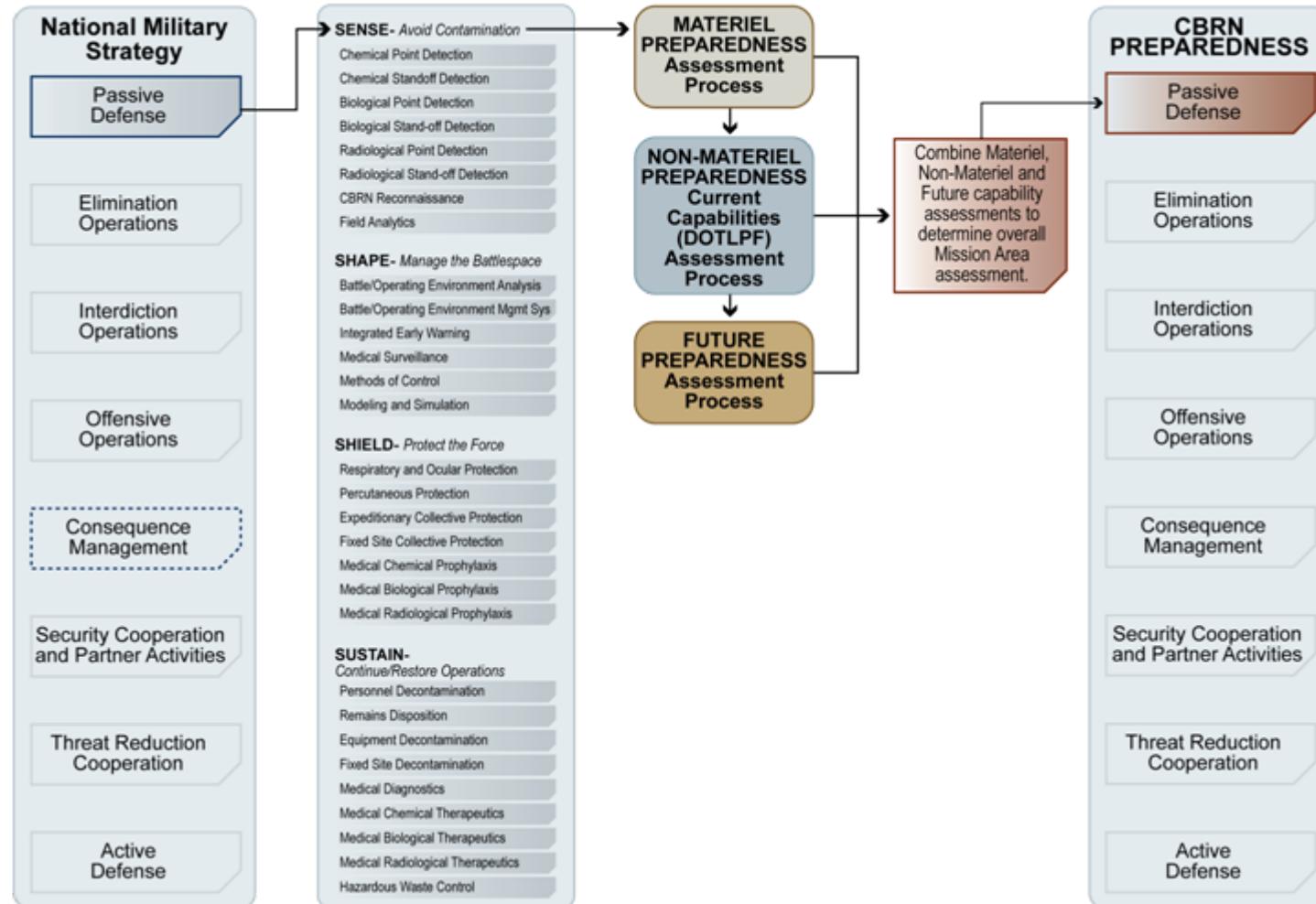
Enhancing Domestic Response and Reserve Capability



Preparedness Assessment – Process Strategies & Linkages



CBRN Defense Preparedness Strategy



Integrated capabilities based assessment with metrics aligned to core capabilities



Training



- DoD CBRN Doctrine, Training, Leadership, and Education (DTL&E) Strategic Plan (Dec 2008)
- DoD CBRN Doctrine, Training, Leadership, and Education (DTL&E) Implementation Plan (May 2009)
- Establishes Four Objectives:
 - *Improved, Integrated, and Unified CBRN Defense Operations*
 - *Sustained Adaptive and Innovative Environment*
 - *Aligned CBRN Defensive Training Infrastructure*
 - *Established Performance-Based Management Process*
- Way Ahead:
 - *Develop & Execute a mitigation strategy for validated CBRN defense gaps and shortfalls.*
 - *Initiate changes to policy, authority, and guidance documents, as appropriate.*
 - *Coordinate DoD-wide CBRN defense preparation and submission of the President's Budget and POM resource decisions.*
 - *Continue assessments to identify required policy, authority, guidance, and direction to enhance Joint operations.*



Way-Ahead: CBDP in the Next 5-10 years

To execute effectively for the next 5 to 10 years, the CBDP depends on continued Congressional support in three priority areas:

- Consistent resources for the overall program to ensure that, year after year, the CBDP is able to field improved defensive capabilities essential to ensuring our military can operate in any environment, unconstrained by CBRN threats.
- Adequate funding for the TMTI to exploit fully the advanced S&T innovation necessary to counter successfully future genetically engineered biological weapons and any newly emergent or bioengineered pathogen. This will improve the nation's military health infrastructure to deal with changing and emerging threats.
- Adequate far-term investment in the RDT&E infrastructure to enhance our RDT&E capabilities, including the modernization and construction of laboratories and test facilities needed to ensure the efficient and effective development of advanced countermeasures against current and emerging CBRN threats. These threats include both traditional military threat agents and emerging chemical threats.



Our Measure of Success

Our Soldiers, Marines, Sailors, and Airmen continue to lead the world in CBRN defense capabilities:

- *Obtain* the necessary DOTMLPF integrated solutions for components, systems, and systems-of-systems
- *Continue to develop* new defensive capabilities in anticipation of the continued evolution of WMD threats
- *Provide* CBRN Defense capabilities in support of the National Military Strategies
- *Realize* the vision to ensure that DoD operations are unconstrained by CBRN effects through that same integration

Inherent responsibility of the CBDP Enterprise is to create a **Joint Force** with Warfighters better organized, trained, equipped, and resourced than in the past to deal with the WMD threat



Questions



Joint CBRN Combat Developer

U.S. Army CBRN School
COL (P) Les Smith

Briefing for JCBRN Conference
25 June 2009



Agenda

- Mission
- Authority
- Joint CBRN Combat Developer
 - Joint Experimentation and Analysis
 - Joint Threat Support
- Doctrine Support
- Training Support
- International Update
- Operational Update
- Summary



Criticality of Our Mission

“The Commission believes that unless the world community acts decisively and with great urgency, it is more likely than not that a weapon of mass destruction will be used in a terrorist attack somewhere in the world by the end of 2013. The Commission further believes that terrorists are more likely to be able to obtain and use a biological weapon than a nuclear weapon.”

Senator Bob Graham, Commission Chair
The Report of the Commission on the Prevention
of WMD Proliferation and Terrorism,
December 2008



JCD Mission

Conduct realistic experiments for the Department of Defense Chemical and Biological Defense Program by systematically exploring new and innovative combinations of medical and non-medical Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities (DOTMLPF) capabilities.

to reduce risk and cost in materiel development

JEAD Mission

Coordinate and oversee execution of Joint and Multi-Service experiments used to validate the Joint Integrating Concept for CBRN Defense



Joint Experimentation and Analysis





JEAD Completed Experiments Since last JCBCRN Conference

- **Joint Concept for CBRN Contamination Mitigation**
 - Final report dated October 08
- **Sensitive Site Exploitation/Assessment Linkage**
 - Final report dated October 08
- **Mass Casualty Decontamination**
 - Final report dated May 09
- **Modular Mobile Laboratory**
 - Final report dated June 09



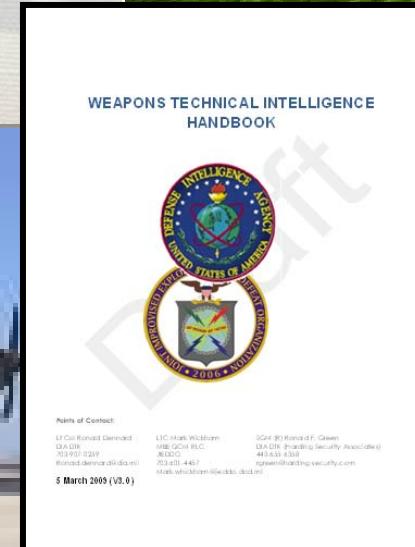
•Specialized CBRN Detection
Equipment Suite



JEAD On-Going Experiments



- **Air Crew Duration**
 - Projected for 4Q FY09 completion
- **CBRN Intelligence Fusion**
 - Projected for 4Q FY09 completion
- **Unmanned CB Vehicle CONOPS**
 - Projected for 4Q FY09 completion





JEAD On-Going Experiments

- **CBRN Hazardous Awareness and Understanding**
 - Projected for a 4QFY09 completion
- **Joint Forces in a Contaminated Environment**
 - Projected for 1QFY14 completion





JEAD Future Experiments

- Automation/Robotic Decontamination
- Impacts of Alternate IPE to Squad & Teams
- Operational Level Decontamination Assessment
- 18 Joint Experiment Nominations received by the JRO for FY 2010-2011





Joint Threat Support



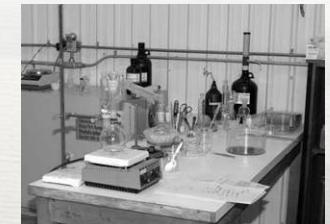


JTSB Foundation

Mission: Develop and coordinate intelligence and threat support products as required by CBRND acquisition programs and experimentation.

Key Accomplishments:

- Completed 2 Joint Test Threat Support Packages (JNBCRS, JCAD, and 1 STAR)
- JCAD, JBPDS, JBTDS, pending (Working on vignettes for the JCAD JTTSP)
- Working on 5 STARs 2 year updates.





Doctrine Support to the Joint CBRN Force





Joint CBRN Doctrine



Joint Doctrine

Combating WMD

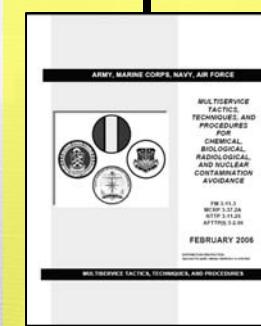


NBC Defense

CBRN Operations

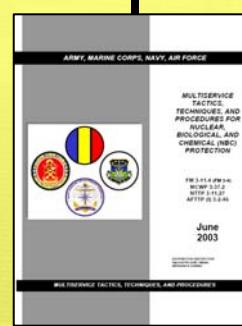


WMD
Elimination



CBRN
Contamination
Avoidance

SENSE



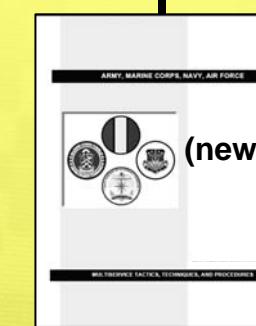
CBRN
Protection

SHIELD



CBRN
Decontamination

SUSTAIN



CBRN
C2

SHAPE



CBRN
Consequence
Management

No longer just **PASSIVE DEFENSE**

Stability Operations

Major Combat Operations

Civil Support

Across the Entire Range of Military Operations...



Training Support to Joint CBRN Force





Training

Professional Courses

- Developing adaptive Soldiers and Leaders operating with all services
- “How to think”

*All our courses are open to all Services

Functional Courses:

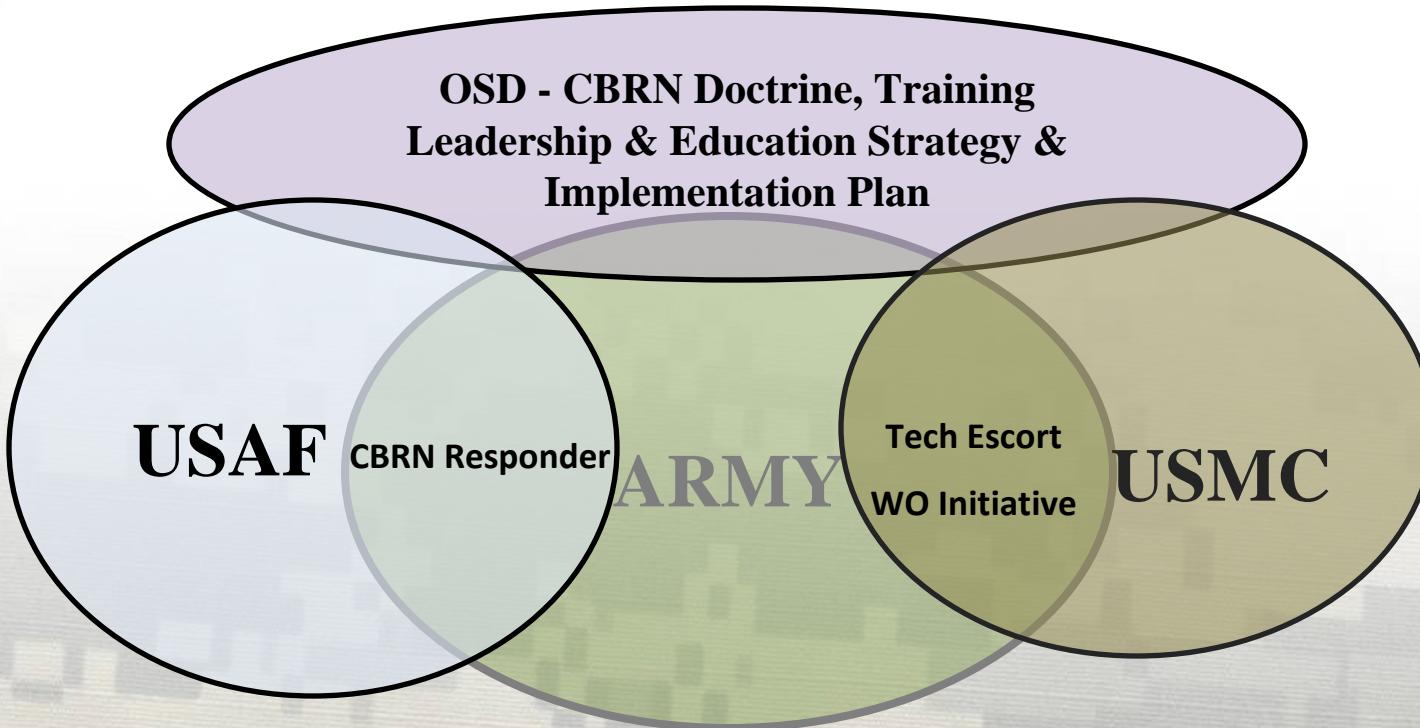
- Civil Support Skills Course
- Mass Casualty Decon
- Technical Escort
- FOX (L5) / Stryker (L6)
- Radiation Safety

GOAL:

- Training reflects full range of CBRN threats, WMD-E and Consequence Management missions
- Expanding chemistry, biology and radiological sciences (i.e., explosive chemistry)
- Institutionalization of COTS protection and detection equipment
- Joint/Inter-agency focus
- Full suite of automated Warning/Reporting/Analysis systems
- Supports critical Homeland Security Skills (CST, CCMRF and CERFP)



CBRN Joint/Multiservice Training



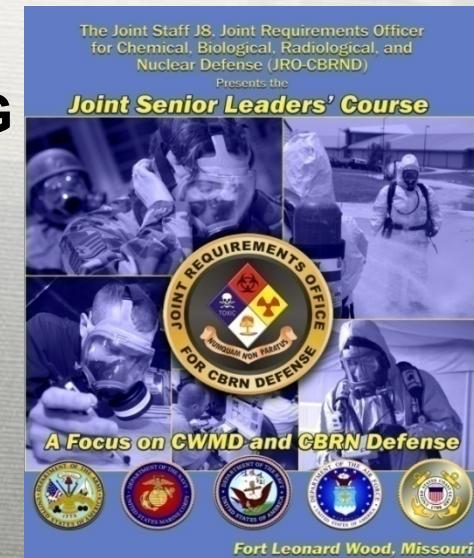
New/Ongoing Efforts:

- Participation in DoD DTL&E Strategy and Implementation Planning
- USAF began training 3E9 Emergency Management in the CBRN Responder Course
- USMC trains in and shares instructor responsibilities for Tech Escort training
- Evaluating USMC participation in 74D10 AIT and CBRN Responder training
- Evaluating Army CBRN Warrant Training in USMC Warrant Officer Course



Joint Senior Leaders' Course

- JRO sponsored, USCBRNS hosted, 3 times a year
- Target audience is O-4 and above/civilian equivalent/E9
- Operational to strategic level focus on DoD's Combating WMD efforts
- Toxic agent training in the Chemical Defense Training Facility (CDTF)
- Interagency participation: DNI, DOS, DHS, FBI, USCG
- Coalition partner participation: UK, Canada
- Course dates:
 - 10 - 13 December 2009
 - 15 - 18 April 2010
 - 22 - 25 July 2010
- Point of contact is Terry Johnson, JRO-CBRND FLW, at (573) 563-6090 or terry.johnson28@conus.army.mil



•UNCLASSIFIED



Chemical Knowledge Network (CKN)



Army Knowledge Online - Microsoft Internet Explorer

Welcome, Lisa Merrill
CKN Knowledge Network My Account | Create a Site | Help | Logout

Home My Workspace Site Map My Favorites Quick Links Self Service AKO Public SEARCH

AKO Home > ACOM > TRADOC > Centers of Excellence > Maneuver Support CoE > CBRN School Online > CBRN School Online Home

Group Profile Send Feedback Send AKO Link Add to Favs

Click here to access this web site in a separate browser window.

WMD Elimination Contamination Avoidance CBRN Protection Decontamination Staff Tools Consequence Management Battlefield Obscurcation MSKN

FLW, MO (MFT-6) Wash, D.C. (MFT-6) 03/31/2008 08:45:18 03/31/2008 09:45:18

Featured Links

News and Announcements New to This Site Fallen Dragon Soldiers

20 Years Ago Today... On March 16th, 1988 Iraqi forces launched various chemical weapons against the primarily Kurdish city of Halabja. Click read more.

CBRN Soldier Personifies Personal Courage, Places Mission First by Capt May E. Ferguson for "The NCO Journal" SGT Claude of Fort Bliss, Texas showed true valor and courage in the face of danger while on a convoy through Mosul, Iraq. Full Story...

90th Anniversary of First Chemical Attack Against U.S. Forces On the 26th of February 1918, German Soldiers launched first chemical attack against U.S. forces sparking the need for an organized chemical defense program. Full Story...

CKN Knowledge Network Welcome, Lisa Merrill CBRN Knowledge Network My Account | Create a Site | Help | Logout Email Files Forums Groups IM/Chat My Forms Video White Pages

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AKO Home > ACOM > TRADOC > Centers of Excellence > Maneuver Support CoE > CBRN School Online > CBRN School Online Home

Group Profile Send Feedback Send AKO Link Add to Favs

Click here to access this web site in a separate browser window.

Full Story... Click Here for Pictures From the Ceremony Chem School Gets Name Change By Allison Choke, GUIDON staff The United States Army Chemical School officially became the United States Army Chemical, Biological, Radiological and Nuclear School, Friday, marking a new page in its long esteemed history. Click to read more....

Agenda For Regimental Week 2008(Updated 27 March)

of the Year

Additional Links

Request for Information Technical Reachback CKN Feedback Other

Request for Information

Please contact our Content Manager

DOTMLPF Links

Doctrine Organization Training Materiel Leadership Personnel Facilities

- CBRN Basic Chemistry Course (dL)
- USACRNS Training Materials This site contains training materials used by the U.S. Army CBRN School to train CBRN Warfighters.
- 2007 CBRN Warfighter CTSB Information and Read-Ahead Packet
- WMD Elimination Technical Escort Units Joint WMD-Elimination Handbook
- Contamination Avoidance (Sense) CBRN Reconnaissance Platoon (With Digital) Collective Task List
- CBRN Reconnaissance Platoon Collective Task List
- CBRN Protection (Shield) Continued Submit Nuclear, Biological, and Chemical (NBC) 1 Reports
- Supervise the Employment of Nuclear, Biological, and Chemical (NBC) Markers Implement Mission-Oriented Protective Posture (MOPP)
- Operate the AN/NVDR-2 Radloc Set Operate the AN/UJDR-13 Radloc Set
- Report Chemical, Biological, Radiological, and Nuclear (CBRN) Information Using NBC 4 Reports

Done Design English (US) 65%

Includes:

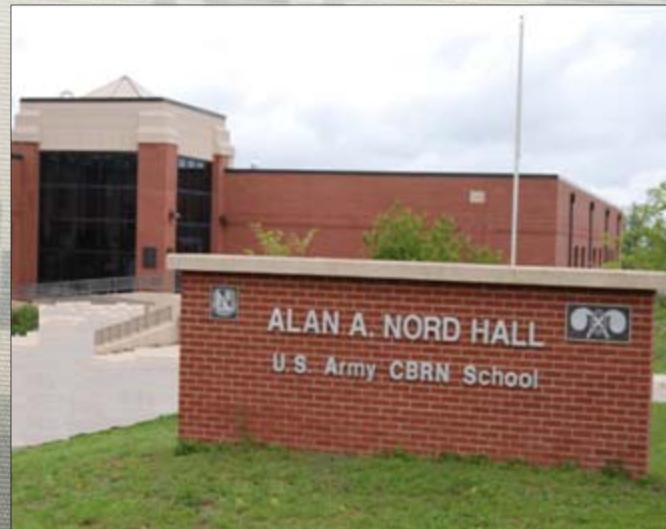
- Links to dL Courses
- Training Support Packages for unit training (over 69% of schoolhouse lessons are available to the Warfighter)
- Performance Tasks – Collective & Individual
- Job Aids
- Handbooks
- Doctrine
- Lessons Learned
- Best Practices
- Includes Consequence Management material

You'll find the link at:

<http://www.wood.army.mil/cbrns/>



Facilities





International Initiatives





Key International Interactions



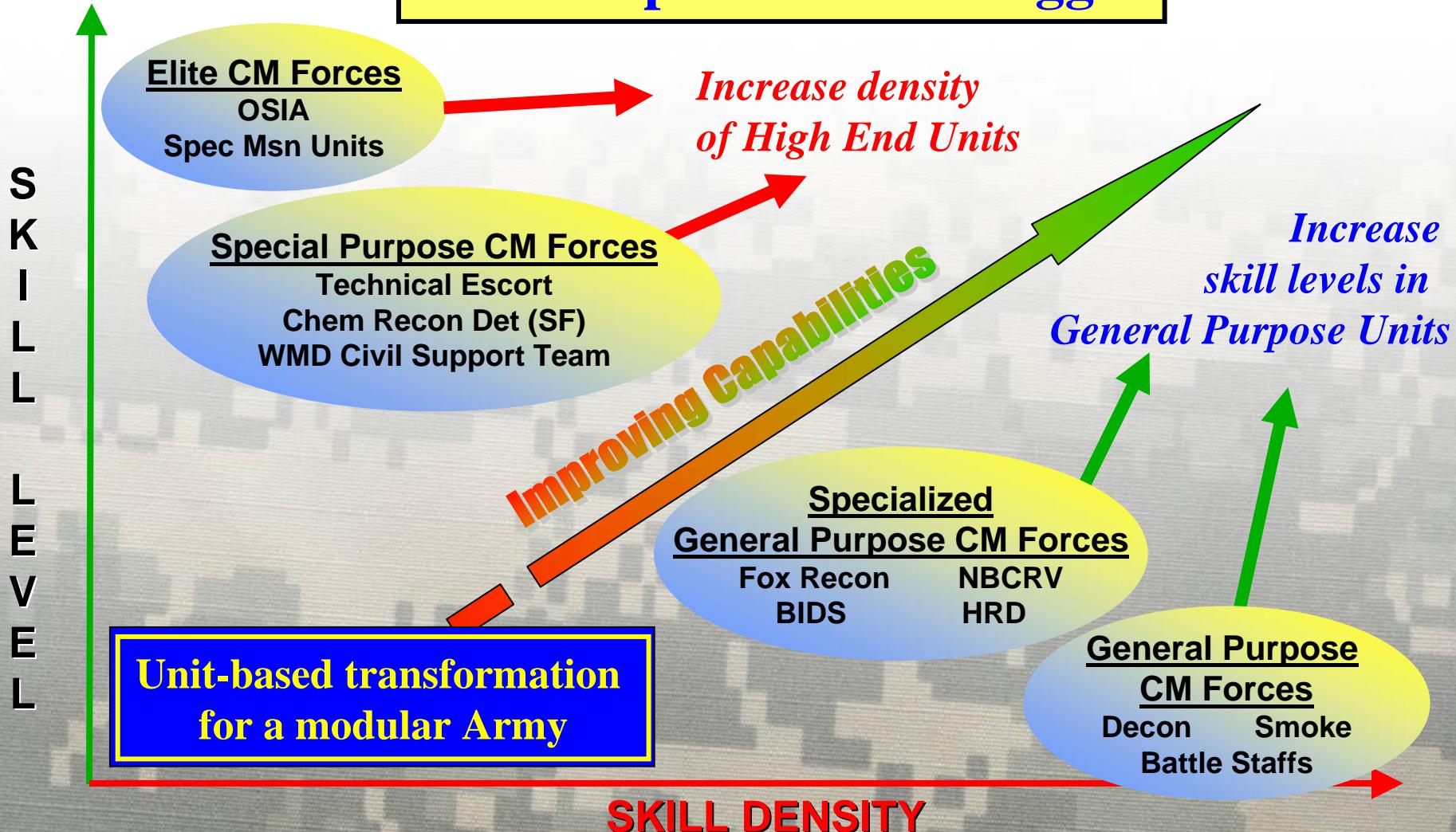
Transformation





Transformation Strategy

More Capable ... Not Bigger





Summary

- CBRN Threats to the Nation will continue
- Transforming CBRN doctrine to meet these challenges
- Need Joint, Interagency, Intergovernmental, and Multi-national solutions
- Realistic experimentation reduces the risk and cost of material solutions
- Transforming the CBRN community to meet these challenges



Questions?



Backup



Joint Aircrew Duration in Protective Ensemble (JADPE)

- **Problem:**

- Determine the crew duty day of aircrews while wearing Individual Protective Ensemble (IPE)

- **Funding:** JRO

- **Location:**

- C-130 trials at Little Rock AFB, AR
 - C17 trials at Travis AFB, CA

- **Recommendations:**

- Identified how long aircrews can safely fly while wearing IPE

- **Result:**

- Validated crew duty day required to shuttle contaminated aircraft from forward locations to decon and/or weathering areas or to shuttle between contaminated Air Port of Debarkation and Exchange Zone





CBRN Intelligence Fusion

- **Problem:**

- Joint forces require effective mechanisms for CBRN intelligence fusion
 - Tactical, operational, and strategic levels
 - Facilitate unified coordination, planning, and execution for combating weapons of mass destruction

- **Funding:** JRO

- **Location:**

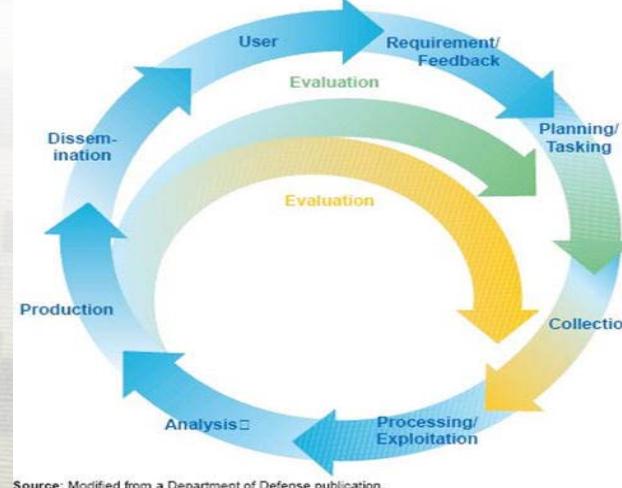
- Republic of Korea
- JFCOM J9, Suffolk, VA

- **Recommendations:**

- All CBRN Warfighters possess the appropriate security clearances
- Tiered access to CBRNE related intelligence thru the MASINT Portal
- CBRN site information be maintained with the similar fidelity as Target Folders
 - Called Elimination Folders

- **Result:**

- Greater knowledge and interaction between Joint CBRN Community and the Intelligence Community

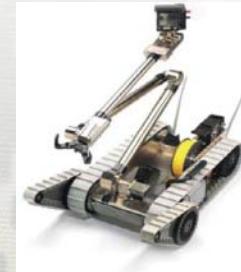




Unmanned Chemical, Biological, and Radiological Systems (UCBRS)

- **Problem:**

- Current operational concepts do not account for ground, sea and air unmanned systems
 - Employing CBR sensor or collector packages
 - Interoperable with and expand on the manned reconnaissance and surveillance systems across the Cbt WMD mission areas



- **Funding:** JRO

- **Location:** Arlington, VA

- **Recommendations:**

- Training should include how to operate in a Joint environment integrating air, ground and sea UCBRS for a unified employment approach
- As technology becomes available capabilities development documents will need to stress modular payloads and plug and play systems that are reliable and capable of detection, sampling, transmitting data, and interoperability with other than CBR sensor suites

- **Result:**

- A broad operational concept will be developed as part of the experiment final report



CBRN Hazardous Awareness and Understanding

- **Problem:**

- There is no written future joint concept for CBRN hazard awareness and understanding
- Joint force capabilities may not provide the Joint Force Commander with CBRN hazard awareness and understanding throughout his operational area
 - 2016-2028 time frame

- **Funding:** JRO



- **Location:** Arlington, VA

- **Recommendations:**

- Develop concept to describe how the Joint Force Commander will achieve CBRN hazard awareness and understanding
 - Must support the four basic types of military activity: combat, security, engagement, and relief/reconstruction
 - In the year 2028

- **Result:**

- A broad operational concept will be developed as part of the experiment final report



CBRNC3 Technical/Common Course Map



- Transition to Seminar Formats
- Focus on JIIM
- Increased Integration-Maneuver Support
- Visiting Instructors (ECBC, DTRA, WDTC, UMR)

Leadership / Foundations <ul style="list-style-type: none">• No major change• TRADOC mandated	Operational Foundations <ul style="list-style-type: none">• DofCS Classes• JIIM• MCS-L/JEM/JWARN• Opn Protection	Non-Proliferation <ul style="list-style-type: none">• WMD Strategy• ECBC• Policy• WMD Technology	Counter-Proliferation <ul style="list-style-type: none">• Policy/WMD-E• DTRA• Interdiction / Offensive Ops	Chemical Block <ul style="list-style-type: none">• Masters Level• TIC / traditional• Chemistry of Explosives	Biological Block <ul style="list-style-type: none">• Masters Level• Research Project• Production• CKN/JKO/DKO
Radiological / Nuclear Block <ul style="list-style-type: none">• OPRAD focus• RDD• Response• Digital Tac Rad	Active/Passive Defense <ul style="list-style-type: none">• VA• JEM Exercises• IED Defeat TCOIC• Mass Casualty	HAZMAT AWS/OPS <ul style="list-style-type: none">• 3 weeks (TIC/PDE)• Sampling• SSE / TSE• Detector Tech Ex	•ICS •NRP/NIMS <ul style="list-style-type: none">• Incident Command Certification• HLD Integration• CSMRF	•Consequence Management <ul style="list-style-type: none">• DoD in CM and FCM• Legal aspects• 3 day exercise• ECBC	STX <ul style="list-style-type: none">• CM Capstone• TSE / SSA• Terry Facility• Response Planning
•Ozark Fury <ul style="list-style-type: none">•WFX III Scenario	•Warfighter III <ul style="list-style-type: none">•Change to CTL•Updated scenario	Company Command <ul style="list-style-type: none">• Scenario Driven• Rear – D• Casualty Ops• WTU	<ul style="list-style-type: none">• No Growth• 5.3 weeks Common Core• 14 weeks Technical Block		

Technical Block

Common Core

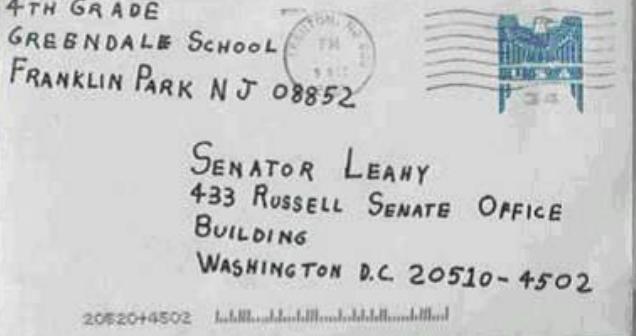
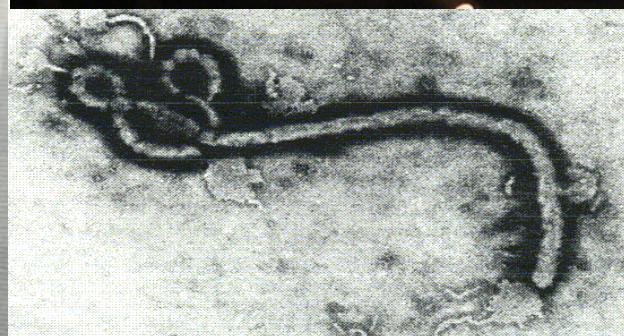


Operational Update





Threats





Operational Update

Iraq/ MNC-I/MNDs

I Corps 1 CD
25 ID 34 ID

As of: 17 Jun 09

CBRN Units Assigned:

Co/22nd CM Bn (Tech Escort)
1/1 CD Recon Plt (FOX)
2/1 CD Recon Plt (FOX)
3/1 CD Recon Plt (FOX)
4/1 AD Recon Plt (FOX)
2/1 ID Recon Plt (FOX)
2/4 ID Recon Plt (FOX)
172 IN Recon Plt (FOX)
1/25th ID Recon Plt (SNBCRV)
3/25th ID Recon Plt (SNBCRV)
6/28th ID Recon Plt (SNBCRV)
4/59 CM Co (HAZMAT Plt)
3/82 ABN Recon Plt



Afghanistan/CJTF 82nd ABN Div

CBRN Units Assigned: 21 CM Co (-)*



Kuwait/ARCENT 3rd Army CBRN Units Assigned

61st CM Co (Recon Plt)

Scheduled for Deployment

3 ID (repl. 25ID)
HHD, 490th CM Bn*
320th CM Co*
357th CM Co*
HHC, 479th CM Bn*

1 AD (repl. 1CD)
411th CM Co*
HHD, 472nd CM Bn*
314th CM Co(-) *

* Performing non-CBRN mission